EXHIBIT B

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STUDY AREA

The study area includes the proposed right of way associated with the West Waukesha Bypass route between the STH 59/CTH X intersection and IH-94. The specific route is located in U.S. Public Land Survey Sections 5, 6, 7, 8, and 17, Township 6 North, Range 19 East; and Sections 29, 30, 31, and 32, Township 7 North, Range 19 East, City and Town of Waukesha, and City of Pewaukee, Waukesha County Wisconsin.

METHODS

All wetland boundary determinations were based upon the criteria and methodologies set forth in the 1987 Corps of Engineers Wetlands Delineation Manual; the October 2009 Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region; and the Wisconsin Department of Administration Coastal Management Program's 1995 Basic Guide to Wisconsin's Wetlands and their Boundaries. The specific dates of the wetland boundary determinations are described in the cover letter to this report.

The wetland boundary determinations also incorporated use of the Commission's 2010 large-scale Orthophotography, the 2005 Wisconsin Wetland Inventory, Waukesha Counties large-scale 2005 topographic mapping, a review of the Farm Service Agency (FSA) aerial photography slides for those lands currently under agricultural uses, and the Natural Resource Conservation Service's (NRCS) soil survey. In addition, climate data from the National Weather Service and the United States Geological Survey (USGS) were considered in determining ambient hydrology conditions on each of the sample sites.

It should be noted that those farmed (Atypical) wetland boundaries identified on November 15 and 29, 2011, were conducted outside the growing season. This was due to the fact that the crops were not removed from these lands until mid-November. Those wetland boundaries will be confirmed – and adjusted if necessary - right after the start of the 2012 growing season.

The wetland boundary was identified in the field by flagged stakes. Each stake was surveyed by a Registered Land Surveyor from Kapur and Associates, Inc. Due to the land owners request; those stakes located on active agricultural lands were removed at the completion of the survey.

RESULTS

The results of the wetland delineation are set forth on the large scale Orthophotography attached to Exhibits A and B. A total of 63 sample sites were identified in and adjacent to the proposed Bypass right of way. The data sheets attached to Exhibit B describes the findings at each sample point. The Orthophotography attached to Exhibit B also shows the specific location of the plant community areas and corresponding sample sites.

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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/25/2011 Applicant/Owner: Sampling Point: 1 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Long: Slope (%): 12-20% Datum: Soil Map Unit Name: Hochheim Ioam (HmD2) Wd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation____, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? Yes ⊠No Hydric Soils Present? ☐Yes ⊠No Wetland Hydrology Present? ⊠No □Yes If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) ☐ Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) ☐ Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aguitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) ☐ FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🗌 No 🛛 Depth (inches): ___ Saturation Present? Yes No 🖂 Depth (inches): _ Wetland Hydrology Present? Yes 🗌 No 🗵 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

1	/EGET	ATION	- Use scientific names of plants
١	VEGET	ALIUN	 Use scientific names of plants.

Tree Stratum (Plat size: 20' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30' radius</u>) 1. <u>Quercus macrocarpa</u>	% Cover 50	Species? ⊠	Status FAC	Dominance Test worksheet:
	33		FACW	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2. Acer negundo	10		FACU	A DECEMBER OF THE CONTROL OF THE PRODUCT OF THE PRO
3. <u>Carya ovata</u>	10			Total Number of Dominant Species Across All Strata: <u>6</u> (B)
4. Prunus serotina	200		FACU	945 GCV 6850 GC 52567 955
5. Rhamnus cathartica	10		FACU	Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
6		<u> </u>		
7			-	Prevalence Index worksheet:
g	113	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
Zanthoxylum americanum	20	\boxtimes	NI	FACW species x 2 =
2. Rhamnus cathartica	<u>6</u>		FACU	FAC species x 3 =
3. Carya ovata	<u>5</u>	口	FACU	FACU species x 4 =
4. Lonicera X bella	2	Д	NI	UPL species x 5 =
5	-	П	-	Column Totals: (A) (B)
6			_	Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	33	= Total Cov	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.01
1. Rhamnus cathartica	20		FACU	☐ Morphological Adaptations¹ (Provide supporting
2. Lonicera X bella	12	\boxtimes	NI	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Parthenocissus quinquefolia	<u>10</u>	\boxtimes	FACU	Security of the second seco
4. Vitis riparia	6	П	FACW	Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
5. Circaea lutetiana	<u>5</u>		FACU	be present, unless disturbed or problematic.
6. Geum canadense	<u>5</u>		FAC	Definitions of Vegetation Strata:
7. Solidago altissima	<u>5</u>		FACU	
	2		FACW	Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
8. Aster lateriflorus	€		IACW	at Disast Holgh (DDI), rogal aloss of Holgh
9	-		-	Sapling/shrub – Woody plants less than 3in. DBH
			-	and greater than 3.28 ft (1 m) tall.
11.				Herb - All herbaceous (non-woody) plants, regardless
12			-	of size, and woody plants less than 3.28 ft tall.
200 10 - 100 -	<u>65</u>	= Total Cov	er	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)		-		height
1. Vitis riparia	<u>3</u>		FACW	
2		ш.	700000	
3				Hydrophytic
4	-		_	Vegetation Present? Yes □ No ⊠
	3	= Total Cov	er	Present? Yes ☐ No ☒
Remarks: (include photo number here or on a separate sheet	.) Hardwoods	. Photo 1.		å
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Color (moist)	Color (moist) % Color (moist) % Type Loc2 Texture Remarks 2.5Y 2.5/1 100 Silt loam Possible old fill C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Soil Indicators: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric So	Depth	Matrix				Redox Fe	eatures						
De: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Coation: PL=Pore Lining, M=Matrix Indicators: Indicators for Problematic Hydric Soils*: Indicators for Problematic Hydric Soil Present? Indicators for Problematic Hydric Soil Present? Indicators for Problematic Hydric Soil Present? Indicators for Hydric Soil Present? Indicators for Indicators for Indicators for Hydric Soil Present? Indicators for In	C2-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains C3-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains C3-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains C3-Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains C3-Coated Sand Sand Indicators 6: 1	nches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Texture		Re	emarks
De: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains *Location: PL=Pore Lining, M=Matrix Indicators: Indicators for Problematic Hydric Soils*; Histosol (A1)	C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains C=Coated Grains C=	20	2.5Y 2.5/1	100				-	-	Silt loa	m	Po	ssible old fil	I
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Black Histic (A3)	Black Histic (A3)					ш			(58) (LKK K,					
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□ Stratified Layers (A5) □ Loamy Gleyed Matrix (F2) □ Polyvalue Below Surface (S8) (LRR K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR K, L, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 14 □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A, 145, 14 □ Sandy Redox (S5) □ Red Parent Material (TF2) □ Very Shallow Dark Surface (TF12) □ Dark Surface (S7) (LRR R, MLRA 149B) □ Other (Explain in Remarks) icators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes □ No □ Type: □ Depth (inches): Hydric Soil Present? Yes □ No □	Stratified Layers (A5)			Λ										
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Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) icators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: Depth (inches): Depth (inches):	Sandy Redox (S5)					-			•)					
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) icators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. itrictive Layer (if observed): Type: Depth (inches): Depth (inches):	Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Dors of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Live Layer (if observed): Layer: L			(0.)		-	ricada Depri	00010110 (1 0)						447, 145, 14
Dark Surface (S7) (LRR R, MLRA 149B) icators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. itrictive Layer (if observed): Type: Depth (inches): Type:	□ Dark Surface (S7) (LRR R, MLRA 149B) □ Other (Explain in Remarks) ors of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. tive Layer (if observed): rpe: epth (inches):													F12)
icators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. trictive Layer (if observed): Type: Depth (inches):	ors of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. tive Layer (if observed): rpe: apth (inches):			RR R, MLRA	149B)									0.100
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/25/2011 Applicant/Owner: Sampling Point: 2 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): floodplain Lat: Long: Soil Map Unit Name: Wet Alluvial Land (Ww) Pd NWI classification: S3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 (If, needed, explain any answers in Remarks.) Are Vegetation____, Soil____, or Hydrology __ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? Hydric Soils Present? Yes □No ⊠Yes □No Wetland Hydrology Present? ⊠Yes No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) × ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) \boxtimes Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🛛 Depth (inches): Water Table Present? Yes X No 🗆 Depth (inches): 11.5 Saturation Present? Yes 🛛 No 🗆 Depth (inches): 8 Wetland Hydrology Present? Yes 🖂 No 🗆 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Sample site is located within the Pebble Brook floodway.

٧	Æ	GE	TA	T	ION	- Use	scientific	names	of	plants.
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Tree Stretum (Blet size: 20' redius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' radius)	% Cover 33	Species?	Status	
1. <u>Salix nigra</u>	90		OBL	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
3				era sinan arangan kenganan kengan pangan kangan ang ang ang ang ang ang ang ang an
	-	므		Total Number of Dominant
5			-	Species Across All Strata: 4 (B)
	******	П	_	Percent of Dominant Species
6		Д		That Are OBL, FACW, or FAC: 75 (A/B)
7		\Box	*	Prevalence Index worksheet:
*	33	= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1. Cornus amomum	40	⋈	FACW	FACW species x 2 =
2. Rhamnus cathartica	10	\boxtimes	FACU	FAC species x 3 =
	minute			Lance Marketine Comment
3				FACU species x 4 =
4				UPL species x 5 =
5	-	Ξ.		Column Totals: (A) (B)
6	1			Prevalence Index = B/A =
7		П		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	<u>50</u>	= Total Cove	r ·	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0 ¹
Phalaris arundinacea	100	\boxtimes	FACW	☐ Morphological Adaptations¹ (Provide supporting
2	-	\Box	-	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3				Troblemade riyarophytic vegetation (Explain)
	300000	<u>(=)</u>	5-01-141 LA	1 Indicators of hydric soil and wetland hydrology must
4				Be present, unless disturbed or problematic.
5	-	П	-	Definitions of Venetation Strates
6				Definitions of Vegetation Strata:
7	_			Tree – Woody plants 3in. (7.6 cm) or more in diameter
8		Д.		at breast height (DBH), regardless of height
9		П		Sapling/shrub – Woody plants less than 3in. DBH
10				and greater than 3.28 ft (1 m) tall.
11		\Box		77 1 1000 2
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1	100	= Total Cove	-	or size, and woody plants less than 5.20 it tall.
Woody Vino Stratum (Blot size; 20) radius)	100	- Total Cove		Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1		<u> </u>		
2		Ц		
3				Hydrophytic
4				Vegetation
V	<u>0</u>	= Total Cove	r	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet	.) Fresh (wet			,
10				
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Depth	Matrix				Redox Feat	ures		bsence	1	
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	-	Texture	Remarks
0-9.5	5Y 2.5/1	100			-			Clay Ic		The state of the s
9.5-21	10Y 2.5/1	100	10YR 4/6		c/p	С	PL	Silty cl	lay loam	
21-29	10Y 2.5/1	100	10YR 4/6		c/p	C	M	Silt loa		
29	-		-							Refusal
				-			J	-		
							-			
								8		
		72711								
								0 		
		-								
	Concentration, D=Dep il Indicators:	letion, RN	1=Reduced	Matrix, C	S=Covered o	Coated Sar	nd Grains			ore Lining, M=Matrix
	il Indicators: Histosol (A1)			□ Po	olyvalue Belov	v Surface (S	8\ /I PP P			ematic Hydric Soils³: (10) (LRR K, L, MLRA 149B)
A Committee of the	Histic Epipedon (A2)				MLRA 149		o) (LKK K,			Redox (A16) (LLR K, L, R)
30000	Black Histic (A3)			☐ Th	nin Dark Surfa	3970	R R, MLRA	(149B)		Peat or Peat (S3) (LLR K, L, R)
	Hydrogen Sulfide (A4)		☐ Lo	amy Mucky N	/lineral (F1)	LRR K, L)		☐ Dark Surface	(S7) (LRR K, L)
	Stratified Layers (A5)		23.32	2000 CO.	amy Gleyed					low Surface (S8) (LRR K, L)
	Depleted Below Dark		A11)		epleted Matrix					rface (S9) (LRR K, L)
	Thick Dark Surface (A Sandy Mucky Mineral			200	edox Dark Su					ese Masses (F12) (LRR K, L, R)
	Sandy Gleyed Matrix				epleted Dark : edox Depress					odplain Soils (F19) (MLRA 149E (TA6) (MLRA 144A, 145, 149B
	Sandy Redox (S5)	(04)			sdox Depress	ions (Fo)			Red Parent M	
12227	Stripped Matrix (S6)									Dark Surface (TF12)
	Dark Surface (S7) (LF	RR R, ML	RA 149B)							n in Remarks)
3, ,, ,,	711 1 1 1		10 10 0		33 5	3 38 3	100	65 8		
	of Hydrophytic vegeta Layer (if observed)		vetland nydi	rology mu	ist be present	, unless dist	urbed or pre	oblemati	ic.	
AL 15 (1) A	Layer (ii observed)							100		
Type	: Rocks (old stream be							115	lydric Soil Present	? Yes⊠ No □
Depti	: Rocks (old stream be h (inches): 29	ed?)							lydric Soil Present	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo	on landscap	e position	(Pebble Bro	ok floodplain) low chrom		7	? Yes ⊠ No ☐ rophytic vegetation, and late
Depti Remarks: \	h (inches): 29	ed?) based upo	on landscap	e position	(Pebble Brod	ok floodplain) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo	on landscap	e position	ı (Pebble Bro	ok floodplain) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo	on landscap	e position	i (Pebble Brod	ok floodplain) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo	on landscap	e position	ı (Pebble Brod	ok floodplain) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo	on landscap	e position	ı (Pebble Brod	ok floodplain) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo	on landscap	e position	i (Pebble Brod	ok floodplain) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo				2) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo				2) low chrom		7	
Depti Remarks: \	h (inches): <u>29</u> Wetland soils present	ed?) based upo				2) low chrom		7	
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	ed?) based upo				2) low chrom		7	
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present	ed?) based upo				2		a colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	ed?) based upo				2		a colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	ed?) based upo				2		a colors	7	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	ed?) based upo				2		a colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	ed?) based upo				2		a colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	ed?) based upo				2		a colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	based uporation.				3		na colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	based uporation.				3		na colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	based uporation.						na colors	s, dominance of hydr	rophytic vegetation, and late
Depti Remarks: V season hig	h (inches): <u>29</u> Wetland soils present ih water table/soil satu	based uporation.						na colors	s, dominance of hydr	rophytic vegetation, and late

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Sampling Date: 08/04/2011 Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Applicant/Owner: Sampling Point: 3 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Long: _ Slope (%): 6-12% Datum: NWI classification: none Soil Map Unit Name: Hochheim Ioam (HmC2) Wd Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation____, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) ☐ Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) ☐ Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) ☐ Iron Deposits (B5) Thin Muck Surface (C7) ☐ Shallow Aquitard (D3) Other (Explain in Remarks) ☐ Inundation Visible on Aerial Imagery (B7) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): _ Water Table Present? Yes 🗌 No 🛛 Depth (inches): __ Saturation Present? Yes 🗌 No 🖂 Depth (inches): _ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

VEGETATION – Use scientific names of plants.				Sampling Point: 3
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	Man—manifements		(0. 0.0	Number of Dominant Species
2			4.15	That are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant
4		П		Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6		а 🗖 .		That Are OBL, FACW, or FAC: 0 (A/B)
7	V			Prevalence Index worksheet:
· · · · · · · · · · · · · · · · · · ·	0	= Total Cover	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x1 =
1				FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4			8	UPL species x5 =
5			-	Column Totals: (A) (B)
6			· · · · · · · · · · · · · · · · · · ·	Prevalence Index = B/A =
7			_	Hydrophytic Vegetation Indicators:
	<u>o</u>			☐ Rapid Test for Hydrophytic Vegetation
Hosto Stratum (Plat aires El endiso)	<u>o</u>	= Total Cove	r	☐ Dominance Test is >50% ☐ Prevalence Index is =3.0¹
Herb Stratum (Plot size: 5' radius)	67		'NI	☐ Morphological Adaptations¹ (Provide supporting
1. Bromus inermis	1000			data in Remarks or on a separate sheet)
2. Centaurea maculosa	25		NI	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Rhus radicans	20	П	FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Daucus carota	10	П	NI	Be present, unless disturbed or problematic.
5. Asclepias syriaca	<u>5</u>	口	NI	
6. Echinocystis lobata	3	口	FACW	Definitions of Vegetation Strata:
7. Agropyron repens	2		FACU	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Convolvulus arvensis	1		NI	at breast height (DBH), regardless of height
9				Sanling/about Woody plants loss than 3in DRH
10		П		Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11		豆	5	Contain 4 The Contain 4 Annie 1 Anni
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	133	= Total Cove		of size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 30' radius)	100	- rotal cove		Woody vines - All woody vines greater than 3.28 ft in
woody vine Stratum (Flot size, 30 radius)				height
1.—	(
2		<u> </u>	_	
3		ш	-	Hydrophytic
4	-	ш	-	Vegetation Present? Yes □ No ⊠
	0	= Total Cove	r	Present res No
Remarks: (include photo number here or on a separate sheet	.) Old field. F	Photo 3.		

	scription: (Describ	,		Redox Fea	aturee					
Depth (inches)		%	Color (mo		Type ¹	Loc ²	- 7	Tautura		Domaska
(inches)	Color (moist)		Color (mo	151) %		LOC-	-	Texture	· U	Remarks
0-13		100					Gravel fil		Crushed dol	omite gravel
13-20	10YR 3/2	100	7.5YR 4/6	c/p	C	M	Silt loam			
- 200			V			_				
								1		
		199					2 2	30		THE THE PERSON NAMED OF TH
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l= 0										
	Concentration, D=D il Indicators:	epletion, RN	/I=Reduced Mat	trix, CS=Covered	or Coated Sar	nd Grains		Location: PL=P		
	Histosol (A1)		Г	7 Polyvalue Rol	ow Surface (S	8) /I PP P	100000000000000000000000000000000000000	cators for Problem 2 cm Muck (A		c Soils": L, MLRA 149B)
	Histic Epipedon (A2	2)	_	MLRA 14		b) (LKK K	-		Redox (A16)	
	Black Histic (A3)				face (S9) (LRF	R. MLRA				S3) (LLR K, L, R)
	Hydrogen Sulfide (A	A4)			Mineral (F1) ((S7) (LRR K,	
	Stratified Layers (A									88) (LRR K, L)
	Depleted Below Da	101741700000			3 - 430 L - 740/03-0320				ırface (S9) (LF	
1	Thick Dark Surface Sandy Mucky Mine									F12) (LRR K, L, R) (F19) (MLRA 149B
	Salidy Mucky Mille	rai (31)					ı	Piedmont Flo	odpiain Solis	(F19) (WILKA 149B
	Sandy Gleved Matr						1		TAR MI PA	
	Sandy Gleyed Matr Sandy Redox (S5)		Ī	프로 - 이번 회사회가 200명 12 12 12 12 12 12 12			- 2	☐ Mesic Spodio		A 144A, 145, 149B)
	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6	ix (S4)					Ī	☐ Mesic Spodio ☐ Red Parent N	c (TA6) (MLRA Material (TF2) / Dark Surface	A 144A, 145, 149B)
	Sandy Redox (S5)	ix (S4)					Ī	Mesic Spodio Red Parent N Very Shallow	Material (TF2)	(TF12)
	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7)	ix (S4) i) (LRR R, ML	RA 149B)	Redox Depres	ssions (F8)	8 1]]]	Mesic Spodio Red Parent N Very Shallow	Material (TF2) Dark Surface	(TF12)
Indicators	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr]]]	Mesic Spodio Red Parent N Very Shallow	Material (TF2) Dark Surface	(TF12)
Indicators	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
Indicators Restrictive	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodio Red Parent N Very Shallow	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
3Indicators Restrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe : th (inches):	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
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3Indicators Restrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe : th (inches):	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
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3Indicators Restrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe : th (inches):	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
3Indicators Restrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe : th (inches):	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
3Indicators Restrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe : th (inches):	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
3Indicators Restrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe : th (inches):	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)
3Indicators Restrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg e Layer (if observe : th (inches):	ix (S4) (LRR R, ML etation and	RA 149B)	Redox Depres	ssions (F8)	urbed or pr	[[coblematic.	Mesic Spodic Red Parent N Very Shallow Other (Expla	Material (TF2) Dark Surface in in Remarks	A 144A, 145, 149B) (TF12)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/04/2011 Applicant/Owner: Sampling Point: 4 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-3% Lat: Datum: Soil Map Unit Name: Brookston silt Ioam (BsA) Pd NWI classification: E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation____, Soil__ ___, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation____, Soil_ ___, or Hydrology _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area ⊠Yes □No within a Wetland? Hydric Soils Present? Yes □No ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 1 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) \boxtimes Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) \boxtimes Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes 🛛 Depth (inches): 18 No \square Saturation Present? Yes 🛛 No Depth (inches): 8 Wetland Hydrology Present? No 🗆 Yes 🛛 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION	- Use scientific	names of plants.
------------	------------------	------------------

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	-		<u>Status</u>	Number of Dominant Species
(ASS	See 19-20			That are OBL, FACW, or FAC: 1 (A)
2				
3	-	므		Total Number of Dominant
4				Species Across All Strata: 1 (B)
5		□ -		Percent of Dominant Species
6		口		That Are OBL, FACW, or FAC: 100 (A/B)
7				Prevalence Index worksheet:
	<u>o</u>	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
		П		FACW species x 2 =
1			2	
2	-			FAC species x 3 =
3		ш	-	FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6	2000000	口		Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
//				Rapid Test for Hydrophytic Vegetation
THE THE PART PROPERTY WAS A SECURITY OF THE PARTY OF THE	0	= Total Cov	er	☑ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				Prevalence Index is =3.01
1. Phalaris arundinacea	90	\boxtimes	FACW	☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Polygonum pensylvanicum	3		FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3				_ ·
		_		1 Indicators of hydric soil and wetland hydrology must
4	_	Ш	7. 7.1	Be present, unless disturbed or problematic.
5		\Box	====0	35 50 50 MSS 5 500
6				Definitions of Vegetation Strata:
7				Tree – Woody plants 3in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height
	_		200	and the control of th
9				Sapling/shrub – Woody plants less than 3in. DBH
10		П		and greater than 3.28 ft (1 m) tall.
11				Herb - All herbaceous (non-woody) plants, regardless
12			-	of size, and woody plants less than 3.28 ft tall.
31	93	= Total Cov	er	***************************************
Woody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in
				height
1				
2		ш		
3	_		-	Hydrophytic
4				Vegetation
1 (A)	0	= Total Cov	er	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate shee				4.
8	8	3 18		1
				V ² to the second
a				
, v				
				<i>2</i> 0
				A
				27 · · · · · · · · · · · · · · · · · · ·
5 5				

EQII		

Depth	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
N 1/0	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
Specific Soil Indicators	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ydric Soil Indicators: Histosol (A1)	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ydric Soil Indicators: Histoso (A1)	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
//pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains dric Soil Indicators: Histosol (A1)	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
rpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains dric Soil Indicators: Histosol (A1)	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
Histosol (A1)	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
Histosol (A1)	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
dric Soil Indicators:	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
dric Soil Indicators:	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
dric Soil Indicators:	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
dric Soil Indicators:	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
dric Soil Indicators: Histosol (A1)	ic Soils ³ : L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I , L) (S8) (LRR K, L) (RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) ☐ MLRA 149B) ☐ Coast Prairie Redox (A16) (LLR R, L, MLR L, MLRA 149B) ☐ Coast Prairie Redox (A16) (LLR R, L, MLRA 149B) ☐ 5 cm Mucky Peat or Peat (S3) (LI Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L) ☐ Dark Surface (S8) (LFR K, L) ☐ Polyvalue Below Surface (S8) (LFR K, L) ☐ Thin Dark Surface (S9) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L) ☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L) ☐ Iron-Manganese Masses (F12) (LRR K, L) ☐ Piedmont Floodplain Soils (F19) (MLRA 144A) ☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A) ☐ Red Parent Material (TF2)	L, MLRA 149B) (LLR K, L, R) (S3) (LLR K, L, I, I, I, I) (S8) (LRR K, L) (F12) (LRR K, L, I) (F12) (LRR K, L, I) (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
MIRA 149B) Coast Prairie Redox (A16) (LLR R Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LI Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LFR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LS Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (Masic Spodic (TA6) (MLRA 144A Sandy Redox (S5)) Sandy Redox (S5) Red Parent Material (TF2)	(CLR K, L, R) (S3) (LLR K, L, I (S8) (LRR K, L) (F12) (LRR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14
□ Black Histic (A3) □ Thin Dark Surface (S9) (LRR R, MLRA 149B) □ 5 cm Mucky Peat or Peat (S3) (LI Loamy Mucky Mineral (F1) (LRR K, L) □ Stratified Layers (A5) □ Loamy Mucky Mineral (F1) (LRR K, L) □ Dark Surface (S7) (LRR K, L) □ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR K, L) □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (LRR K, L) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (MLRA 144A) □ Sandy Redox (S5) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A)	(S3) (LLR K, L, I (, L) (S8) (LRR K, L) (F12) (LRR K, L, (F12) (MLRA 14 A 144A, 145, 14 e (TF12)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (F1) (LRR K, L) Depleted Dark Surface (F3) (LRR K, L) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S8) (LFR K, L) Thin Dark Surface (S9) (LRR K, L) I Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) I Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) I Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) I Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Polyvalue Below Surface (S9) (LFR K, L)	(S8) (LRR K, L) RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14 e (TF12)
□ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR K, L □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) (L □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (Piedmont Floodplain Soils (F19) (P	RR K, L) (F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (L ☐ Sandy Mucky Mineral (S1) ☐ Depleted Dark Surface (F7) ☐ Piedmont Floodplain Soils (F19) (Depleted Dark Surface (F7) ☐ Sandy Gleyed Matrix (S4) ☐ Redox Depressions (F8) ☐ Mesic Spodic (TA6) (MLRA 144A PARA PARA PARA PARA PARA PARA PARA P	(F12) (LRR K, L, (F19) (MLRA 14 A 144A, 145, 14) e (TF12)
□ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (□ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A □ Sandy Redox (S5) □ Red Parent Material (TF2)	(F19) (MLRA 14 A 144A, 145, 14) e (TF12)
□ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A □ Sandy Redox (S5) □ Red Parent Material (TF2)	A 144A, 145, 14) e (TF12)
☐ Sandy Redox (S5) ☐ Red Parent Material (TF2)) e (TF12)
	e (TF12)
□ Dark Surface (S7) (LRR R, MLRA 149B) □ Other (Explain in Remarks)	-/
The Controlled Special Control	
dicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
strictive Layer (if observed): Type: Hydric Soil Present? Yes N N	9 No 17
lype: Hydric Soil Present? Yes ⊠ N Depth (inches):	⊠ No □
marks:	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/25/2011 Applicant/Owner: State: WI Sampling Point: 5 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 12-20% Long: Datum: Soil Map Unit Name: Hochheim Ioam (HmD2) Wd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes \(\bigcap \) No \(\text{No (If no, explain in Remarks)} Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 ___, Soil____, or Hydrology ____ naturally problematic? Are Vegetation__ (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area ⊠No Hydrophytic Vegetation Present? □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Depth (inches): Surface Water Present? Yes 🗌 No 🖂 Water Table Present? Yes 🗌 No 🖂 Depth (inches): __ Saturation Present? Yes 🗌 No 🛛 Depth (inches): Wetland Hydrology Present? Yes 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

٠,	LUSE I ATION – Use scientific names of plants.				
	Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Don
	1 Prunus serotina	33	×	FACU	Niver

 \boxtimes

 \boxtimes

= Total Cover

 \boxtimes

П

☐ = Total Cover

= Total Cover

= Total Cover

NI

FACU

FACW

FACU

NI

NI

FAC

FACU

FACU

NI

FACU

NI

NI

FAC

FACU

FACW

FACW

NI

10

10

5

58

67

50

2

119

80

25

20

5

5

3

3

3

2

2

1 155*

Dominance Test work	sheet:	
Number of Dominant Spec	ies	
That are OBL, FACW, or F		
Total Number of Dominant Species Across All Strata:		
Percent of Dominant Spec That Are OBL, FACW, or F		
Prevalence Index worksh	neet:	
Total % Cover of:	Multiply b	oy:
OBL species	x 1 =	
FACW species	x 2 =	
FAC species		
FACU species	x 4 =	
UPL species	x5=	-
Column Totals:	(A)	_ (B
Prevalence Ind		_ (-
Problematic Hydrophy Indicators of hydric soil a		14000000
Be present, unless disturb	ed or problematic.	***
Definitions of Vegetation Tree – Woody plants 3in.	(7.6 cm) or more in	diamete
at breast height (DBH), reg	gardless of height	
Sapling/shrub – Woody p and greater than 3.28 ft (1		DBH
	m) tall. on-woody) plants, re	gardless

Remarks: (include photo number here or on a separate sheet.) *Other NON-dominant herbs include: Medicago lupulina (1%) FAC. Shrub thicket with scattered hardwoods. Photo 5

2. Juglans nigra

4. Acer negundo

6. ____

4. ____

7. ___

3. Rhamnus cathartica

1. Rhamnus cathartica

3. Lonicera X bella

1. Poa pratensis

2. Solidago altissima

3. Monarda fistulosa

4. Linaria vulgaris

7. Daucus carota

8. Geum canadense

10. Aster lateriflorus

12. Bromus inermis

Woody Vine Stratum (Plot size: 30' radius)

11. Vitis riparia

1. ____

2. ____

3. ____

9. Rhamnus cathartica

2. Zanthoxylum americanum

Herb Stratum (Plot size: 5' radius)

5. <u>Parthenocissus quinquefolia</u>6. <u>Zanthoxyllum americanum</u>

Sapling/Shrub Stratum (Plot size: 30' radius)

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rofile De										
Depth	Matrix			Redox Fea	tures		2			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Te	exture		Remarks
-10	10YR 2/2	100					Clay loam			
0-15	7.5YR 4/4	50	er ora synther				Clay		-35	
	10YR 3/3	50					-			
5-19	7.5YR 3/3	67					Clay		mixed with	gravel and
0.10	7.5YR 3/4	33								ating dolomite
9	7.511(3/4							-	Refusal	ating dolonite
9					·	_			Reiusai	Samuel Comment of the
									+0)	
	·					- 4	V			
1										
		V								
		((W			
	Concentration, D=Dep	oletion, RM=R	Reduced Matrix,	CS=Covered	or Coated Sar	nd Grains			Pore Lining, M	
A CONTRACTOR DO STORY	oil Indicators:		_				100		olematic Hydr	
	Histosol (A1) Histic Epipedon (A2)			Polyvalue Belo MLRA 149	Marian Character and an experience of great a	8) (LRR R,				L, MLRA 149B) (LLR K, L, R)
	Black Histic (A3)			Thin Dark Surf	SACTOR I are conserve assessment and a conserve to	D MIDA	☐ (149B) □			(S3) (LLR K, L, R)
7	Hydrogen Sulfide (A4)		Loamy Mucky					e (S7) (LRR K	Self-District and the second s
-	Stratified Layers (A5)	6.3		Loamy Gleyed		F-001800018 1918				(S8) (LRR K, L)
	Depleted Below Dark) 🗆 1	Depleted Matri	x (F3)			Thin Dark S	urface (S9) (L	RR K, L)
	Thick Dark Surface (A			Redox Dark Si						(F12) (LRR K, L, R)
	Sandy Mucky Mineral			Depleted Dark						(F19) (MLRA 149B)
	Sandy Gleyed Matrix Sandy Redox (S5)	(54)		Redox Depres	sions (F8)				Material (TF2)	A 144A, 145, 149B)
-	Stripped Matrix (S6)									
							-			
		RR R, MLRA	149B)				: :	Very Shallo	w Dark Surfac	e (TF12)
	Dark Surface (S7) (LF							Very Shallo	w Dark Surfac	e (TF12)
Indicators	Dark Surface (S7) (LF s of Hydrophytic vegeta	ation and wetl		nust be preser	nt, unless dist	urbed or pr		Very Shallo	w Dark Surfac	e (TF12)
ndicators estrictiv	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed)	ation and wetl		nust be preser	nt, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed e: glacial till material	ation and wetl		nust be preser	it, unless dist	urbed or pr	oblematic.	Very Shallo	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed e: glacial till material th (inches): 19	ation and wetl		nust be preser	nt, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed e: glacial till material	ation and wetl		nust be preser	nt, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed e: glacial till material th (inches): 19	ation and wetl		nust be preser	it, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed e: glacial till material th (inches): 19	ation and wetl		nust be preser	it, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed e: glacial till material th (inches): 19	ation and wetl		nust be preser	it, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
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ndicators testrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegeta re Layer (if observed e: glacial till material th (inches): 19	ation and wetl		nust be preser	nt, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl		nust be preser	nt, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	land hydrology n	*	it, unless dist	urbed or pr	oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl		*	it, unless dist	urbed or pr	oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	land hydrology n		it, unless dist		oblematic.	Very Shallo Other (Expl	w Dark Surfac ain in Remarks	e (TF12) s)
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ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	and hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
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ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	land hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	and hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	and hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	and hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators estrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	and hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
ndicators testrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	and hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)
Indicators Restrictiv Type Dept	Dark Surface (S7) (LF s of Hydrophytic vegets re Layer (if observed) e: glacial till material th (inches): 19 Upland soils present.	ation and wetl	and hydrology n				oblematic.	Very Shallo Other (Explanation of the Control of the Con	w Dark Surfac ain in Remarks	e (TF12) s)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/25/2011 Applicant/Owner: State: WI Sampling Point: 6 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-3% Lat: Datum: Soil Map Unit Name: Brookston silt loam (BsA) Pd NWI classification: T3/S3K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation _, Soil____, or Hydrology __ significantly disturbed? Are "Normal Circumstances" present? Yes 🖾 No 🗆 _, Soil_ ____, or Hydrology _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? □No Hydric Soils Present? Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 4 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) \boxtimes Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) \boxtimes FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖂 Depth (inches): Water Table Present? No 🛛 Yes T Depth (inches): Saturation Present? Yes No 🖂 Depth (inches): Wetland Hydrology Present? Yes 🛛 No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Seasonal groundwater discharge area. Possible old fen mound.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Quercus macrocarpa	50	<u>opecies:</u>	FAC	Number of Dominant Species
2. Acer negundo	25	\boxtimes	FACW	That are OBL, FACW, or FAC: 7 (A)
3. Juglans nigra	25	\boxtimes	NI	Total Number of Dominant
4. Prunus serotina	10		FACU	Species Across All Strata: 8 (B)
5			17,00	92 8 9283 99 210 3
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 88 (A/B)
7	(Prevalence Index worksheet:
	110			7A 2 2000 CC 200
	110	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)	40		=4014	OBL species x 1 =
1. Acer negundo	<u>15</u>		FACW	FACW species x 2 =
2. Rhamnus frangula	8		FAC	FAC species x 3 =
3. Lonicera X bella	<u>5</u>		NI	FACU species x 4 =
4. Syringia vulgare	<u>5</u>		NI	UPL species x 5 =
5		Д		Column Totals: (A) (B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	33	= Total Cov	/er	☐ Rapid Test for Hydrophytic Vegetation ☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0 ¹
1. Impatiens capensis	<u>50</u>	\boxtimes	FACW	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Phalaris arundinacea	33	\boxtimes	FACW	Problematic Hydrophytic Vegetation¹ (Explain)
3. Geum aleppicum	<u>10</u>		FAC	0.500 0.50
4. Rubus occidentalis	10		NI	Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
5. Verbena urticifolia	2		FAC	present, amos distarbed or problemate.
6	770 9====0		0	Definitions of Vegetation Strata:
7.				Tree Meady plants 2in (7.6 cm) committee in the
8			· ·	Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
9	Marine B			
10				Sapling/shrub – Woody plants less than 3in. DBH
11	-		_	and greater than 3.28 ft (1 m) tall.
12			-	Herb – All herbaceous (non-woody) plants, regardless
12.	405	П	3 -1-1- 0	of size, and woody plants less than 3.28 ft tall.
100 C 1 C 100 C 10	105	= Total Cov	/er	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)	-	577		height
1. Vitis riparia	5	⊠	FACW	
2				
3				Hydrophytic
4	18 1 - 191			Vegetation
	<u>5</u>	= Total Cov		Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet	.) Lowland ha	ardwoods. Pho	oto 6.	5
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	21	į		ė
8				4
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Depth	Matrix				Redox Feat				25.000000000000000000000000000000000000		
(inches)	Color (moist)	%	Color ((moist)	%	Type ¹	Loc ²	-	Texture	Re	emarks
0-20	10YR 2/1	100		inpropriate and in the control of th				Silty c	ay loam		Park to China and Annie China
20-24	2.5Y 3/1	50	7.5YR 3/4		c/p	С	PL	Clay.		311 11	37
	10YR 2/1	50					71 11.			-	
24-28	5Y 2.5/1	100	7.5YR 4/6	3	c/p	С	М	Clay			
			7.5YR 3/4	0.	c/p	С	М				
28-34	10YR 4/1	100	7.5YR 4/6	3	m/p	С	М	Clay			
	-									11119	ANNO SECTION
			100 N	12.0				-			West Control of Control
	3997	S									
					7 70						
					-	0					11.00
					S 1800						
	Concentration, D=De	epletion, RN	1=Reduced	Matrix, CS	S=Covered o	r Coated Sa	nd Grains		² Location: PL=Pore		
	il Indicators: Histosol (A1)				been been Belee	0 / /0	0) (1 88 8		dicators for Problem		
	Histic Epipedon (A2)		☐ Po	lyvalue Belov MLRA 149		8) (LRR R,		2 cm Muck (A10		
10000	Black Histic (A3)			☐ Th	in Dark Surfa		R R. MLRA	149B)	5 cm Mucky Pea		
	Hydrogen Sulfide (A				amy Mucky M				☐ Dark Surface (S		
2.500	Stratified Layers (A5	NA 100 00 100	1.200	Control of the Control	amy Gleyed				☐ Polyvalue Below		
	Depleted Below Dar Thick Dark Surface	255247318-2733	A11)		pleted Matrix dox Dark Su				☐ Thin Dark Surfac		
and the second	Sandy Mucky Miner	1000 P 1000 P 1000			pleted Dark				☐ Iron-Manganese		2) (LRR K, L, R) 19) (MLRA 149B)
	Sandy Gleyed Matri				dox Depress						44A, 145, 149B)
-										- d-L (TEO)	
	Sandy Redox (S5)								Red Parent Mate		
	Stripped Matrix (S6)		2A 140B)						☐ Very Shallow Da	ark Surface (T	ΓF12)
			RA 149B)							ark Surface (T	ΓF12)
3Indicators	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro	oblemati	☐ Very Shallow Da	ark Surface (T	FF12)
3Indicators	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mus	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da	ark Surface (T	No 🗆 .
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
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3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	st be present	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	1	t, unless dist	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF		ology mu	1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF			1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF	vetland hydr		1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF	vetland hydr		1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF	vetland hydr		1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF	vetland hydr		1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	
3Indicators Restrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (I of Hydrophytic vege e Layer (if observe	LRR R, MLF	vetland hydr		1	4	urbed or pro		☐ Very Shallow Da☐ Other (Explain inc.	ark Surface (T n Remarks)	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/25/2011 Applicant/Owner: State: WI Sampling Point: 7 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-4% Long: Datum: Soil Map Unit Name: Lamartine silt loam (LmB) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation____, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area ⊠No Hydrophytic Vegetation Present? □Yes ☐ Yes ⊠No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation due to regular mowing. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) ☐ Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ High Water Table (A2) Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) ☐ Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) ☐ Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ☐ Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) П FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖂 Depth (inches): Water Table Present? Yes 🗌 No 🖂 Depth (inches): Saturation Present? Yes 🗌 No 🛛 Depth (inches): Wetland Hydrology Present? Yes No 🛛 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

١	/EGET	ATION	- Use scientific names of plants.

1.	Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator	Dominance Test worksheet:
2 Pomus seretins 3	The state of the s	The state of the s		Status FAC	COMPANY AND ANY AND SUCCESSION OF POWER PRODUCTIVE AND ANY AND ANY
3					
## Species Across All Strata:				and and a state of the state of	Total Number of Dominant
S				7/10/09/2	1
6.				7	Percent of Dominant Species
Prevalence Index worksheet:		A [1000	(8)	
Sacising/Shrub Stratum (Plot size: 30' radius) 1. Punus serotina 10 2. FACU				2-3	Prevalence Index worksheet:
Saning/Shrub Stratum (Plot size: 30' radius) 10		. 95		er —	The suppose of the su
1. Prunus serotina 1. Prunus serotina 2. Rhamnus cathartica 3. Rubus occidentalis 2.	Sanling/Shruh Stratum (Plot size: 30' radius)	100 000 1	Total Gov	Ci .	The state of the s
2. Rhamnus cathartica 3. Rubus occidentalis 4. Sambucus canadensis 5.		10		FACU	(6 N 1/2 U DOG (6 N 1/2 U D)
3. Rubus occidentalis 2					
4. Sambucus canadensis 1				37-1903; 003	The second contract of the second
5			_		Supplied to the supplied to th
6		-2	Ħ	INOT	
7.	334		$\overline{\Box}$		
Herb Stratum (Plot size: 5' radius) So FAC Dominance Test is >50% Prevalence Index is =3.0' Morphological Adaptations Foroide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Morphological Adaptations Provide supporting data in Remarks or on a separate sheet) Provide supporting data in Remarks or on a separate sheet) Provide supporting data in Remarks or on					
Bernatise Bollimante et als s 300 Control Prevalence ladex is = 3.01 Provide supporting data in Remarks or on a separate sheet) Providence ladex is = 3.01 Morphological Adaptations '(Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain) Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric vegetation Texture of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Indicators of hydric vegetation Texture of hydric vegetation Problematic Hydrophytic Vegetation Present? Indicators of hydric vegetation Indicators of hydric vegetation Indicators of hydric vegetat		18		ver	
1. Poa pratensis 2. Viola sororia 3.	Herb Stratum (Plot size: 5' radius)		- Total Cov	61	
2. Viola sororia 33		50	\boxtimes	FAC	
3. Digitaria ischaemum 4. Oxalis stricta 5. Taraxacum officinale 6. Trifolium hybridum 7. Geum canadense 8				Same of	
4. Oxalis stricta 5. Taraxacum officinale 6. Trifolium hybridum 7. Geum canadense 8			722		Problematic Hydrophytic Vegetation (Explain)
5. Taraxacum officinale 6. Trifolium hybridum 7. Geum canadense 8	ACCUSATION CONTRACTOR				
6. Trifolium hybridum 7. Geum canadense 2 ☐ FAC 8. ☐ Tree — Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height 9. ☐ ☐ ☐ Sapling/shrub — Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall. 11. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			1		Be present, unless disturbed or problematic.
7. Geum canadense 2				Alberta de la constanta de la	Definitions of Vegetation Strata:
8					
9		₹ .	(44-y)	FAC	
10					at breast reight (DB11), regardess of height
11		-			
12 ☐ _	16/9/62 37:31			—	and greater than 3.26 ft (1 fff) tall.
Moody Vine Stratum (Plot size: 30' radius)		-		-	
Woody Vine Stratum (Plot size: 30' radius) Woody vines – All woody vines greater than 3.28 ft in height 1 2 3 4	12.	104		-	of size, and woody plants less than 3.28 ft tall.
1	Wood - Vine State (Blate: 201 31)	104	= Total Cov	er	Woody vines - All woody vines greater than 3.28 ft in
2					height
4			. <u>H</u>		
4	2			-	80
© = Total Cover Remarks: (include photo number here or on a separate sheet.) Mowed lawn, Photo 7.	3			_	
Remarks: (include photo number here or on a separate sheet.) Mowed lawn, Photo 7.	4				
	Remarks: (include photo number here or on a separate sheet	AND THE RESERVE OF THE PERSON NAMED IN COLUMN TO THE PERSON NAMED		er.	
	<u></u>				
	Fig. 3		\$		s j
	8				
	11				

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Depth	Matrix	<		- 197	Redox Fe	atures							
nches)	Color (moist)	%	Color (ı	moist)	%	Type ¹	Loc ²		Textu	re	F	Remarks	
3	10YR 2/1	100	Control of the Linguistic					Silt lo	oam	·			
9	5Y 2.5/1	100							clay loam				
24	N 2.5/0	100		7				Clay	and the same				
	11.200			-//				Olay	iouiii				
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				- 02-4	_		<u> </u>	1				· · · · · ·	_
						10711		_					
	Concentration, D=D il Indicators:	epletion, RM=	Reduced N	Matrix, 0	CS=Covered	or Coated	Sand Grain				re Lining, M=I		
	Histosol (A1)				olyvalue Be	low Surface	(S8) (LRR				natic Hydric 0) (LRR K, L		49B)
	Histic Epipedon (A	2)			MLRA 1		() (Redox (A16) (
	Black Histic (A3)				hin Dark Su						eat or Peat (S		, L, R)
	Hydrogen Sulfide (A	(11.5 a)			oamy Muck			L)			S7) (LRR K,		
	Stratified Layers (A Depleted Below Da		1)		oamy Gleye epleted Mat		()				w Surface (S ace (S9) (LR I		., L)
	Thick Dark Surface	767 1394 2304 77	.,		ledox Dark S						se Masses (F		K. L. R
	Sandy Mucky Mine			-	epleted Dar						dplain Soils (I		
	Sandy Gleyed Matr	rix (S4)			ledox Depre	ssions (F8)					TA6) (MLRA		
	Sandy Redox (S5)									ed Parent Ma			
	Stripped Matrix (S6		440B)							ery Shallow D		(TF12)	
	Dark Surface (S7)		(149B)							ery Shallow D ther (Explain		(TF12)	
		(LRR R, MLRA	eg stoots	ology m	ust be prese	ent, unless c	listurbed or	problema				(TF12)	
dicators	Dark Surface (S7) of Hydrophytic veg e Layer (if observe	(LRR R, MLRA etation and we	eg stoots	ology m	ust be prese	ent, unless d	listurbed or	problema				(TF12)	
dicators strictive	Dark Surface (S7) of Hydrophytic veg e Layer (if observe	(LRR R, MLRA etation and we	eg stoots	ology m	ust be prese	ent, unless c	listurbed or		atic.		in Remarks)		
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	isturbed or		atic.	ther (Explain	in Remarks)]
dicators strictive Type Depti	Dark Surface (S7) of Hydrophytic veg e Layer (if observe	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)]
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dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)]
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)]
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		3
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	isturbed or		atic.	ther (Explain	in Remarks)]
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	isturbed or		atic.	ther (Explain	in Remarks)]
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		<u> </u>
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		3
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		3
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		3
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		3
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		3
dicators strictive Type Depti	of Hydrophytic veg a Layer (if observe b: th (inches):	(LRR R, MLRA etation and we ed):	tland hydro	ology m	ust be prese	ent, unless d	listurbed or		atic.	ther (Explain	in Remarks)		

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/04/2011 Applicant/Owner: Sampling Point: 8 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: Long: Datum: Soil Map Unit Name: Pistakee silt loam (PrA) Spd NWI classification: S3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks) Are VegetationX, Soil_ ___, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation__ __, Soil____, or Hydrology __ _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area ⊠Yes □ No within a Wetland? Yes □No Hydric Soils Present? ⊠Yes ☐ No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 4 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation due to regular HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) ☐ Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes 🖂 No Depth (inches): 20 Saturation Present? Yes 🖂 No 🗆 Depth (inches): 15 Wetland Hydrology Present? Yes X No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

ree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
		П		Number of Dominant Species
1				That are OBL, FACW, or FAC: 3 (A)
30 (20.00) 				Total Number of Dominant
				Species Across All Strata: 4 (B)
		. П		Percent of Dominant Species
		П		That Are OBL, FACW, or FAC: 75 (A/B)
				Prevalence Index worksheet:
	<u>0</u>	= Total Cov	/er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
Cornus stolonifera	20		FACW	FACW species x2 =
Viburnum Ientago	<u>10</u>	\boxtimes	FAC	FAC species x 3 =
Rhamnus cathartica	<u>5</u>		FAC	FACU species x 4 =
eeconinflandable.CDxCS + cDCCCConflandableDa		П		UPL species x 5 =
			<u> </u>	Column Totals: (A) (B
				Prevalence Index = B/A =
entropie				Hydrophytic Vegetation Indicators:
	35	= Total Cov	/er	☐ Rapid Test for Hydrophytic Vegetation ☐ Dominance Test is >50%
erb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0 ¹
Trifolium repens	<u>50</u>	\boxtimes	FACU	Morphological Adaptations¹ (Provide supporting
Poa pratensis	40	\boxtimes	FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Carex vulpinodea	<u>5</u>		OBL	
Taraxacum officinale	<u>5</u>	П	FACU	¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
		П	1	process and announced by process and announced by
	100			Definitions of Vegetation Strata:
				Tree – Woody plants 3in. (7.6 cm) or more in diameter
	10.27-3			at breast height (DBH), regardless of height
				Sapling/shrub – Woody plants less than 3in. DBH
				and greater than 3.28 ft (1 m) tall.
900	200			W. I. W. I.
				Herb – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
*	100	= Total Cov	/er	
loody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in height
¥	-		· ·	neight .
	-		V	
				Madembata
				Hydrophytic Vegetation
·	0	= Total Cov	/er	Present? Yes ⊠ No □
emarks: (include photo number here or on a separate she	et.) Atypical (m			ed shrubs. Typha latifolia (OBL) and Scirpus atrovirens
DBL) growing immediately adjacent to sample area. Photo	8.			

Depth	Matrix			Redox Feat			_			
(inches)	Color (moist)	%	Color (moi	st) %	Type ¹	Loc ²	Textur	e	Re	emarks
-4.5	2.5Y 2.5/1	100	7.5YR 4/6	c/p	С	PL	Silty clay loam			
1.5-15	2.5Y 3/1	100	7.5YR 4/6	m/p	С	PL & M	Clay loam			
5-18	N 2.5/0	100	10YR 4/4	c/p	С	M	Clay loam	Bu	ried horizon	1
8-26	2.5Y 5/1	50	7.5YR 4/6 to 5		С	M	Clay		ntains limni	
	5Y 5/2	50				-	Jiay		3	o material
	0.012		-			-				
		_								
			-		-					
			-							
					-	<u> </u>	W			201-27-
		_								
	Concentration, D=De	epletion, RN	/=Reduced Mat	rix, CS=Covered o	r Coated Sa	nd Grains		ion: PL=Pore L		
	il Indicators: Histosol (A1)			Polyvalue Belo	w Surface /6	28) // PP P		for Problema		
	Histic Epipedon (A2))	L	MLRA 149		o) (LKK K,		m Muck (A10) ast Prairie Red		
	Black Histic (A3)	()		- Lan Jaking Maning and San	0.00	R R. MLRA				() (LLR K, L, R)
	Hydrogen Sulfide (A	.4)		# 18 18 18 18 18 18 18 18 18 18 18 18 18				rk Surface (S7)		
	Stratified Layers (A5					A contractor		lyvalue Below S		
	Depleted Below Dark							in Dark Surface		
	Thick Dark Surface (8 9	100 mm	EL TENTON TO THE PERSON OF THE	LOS CARDO MINISTERIO	2) (LRR K, L, R)
	Sandy Mucky Minera Sandy Gleyed Matrix			그는 그 이번 이번 내가고 모임하면서 되었다면서)				19) (MLRA 149B
	Sandy Gleyed Matrix Sandy Redox (S5)	x (54)		Redox Depress	sions (F8)			isic Spodic (TA d Parent Mater		44A, 145, 149B)
	Stripped Matrix (S6)							ry Shallow Darl		TF12)
	Dark Surface (S7) (L		RA 149B)					ner (Explain in I		1.1.
			AT DE 170 1977							
	of Hydrophytic veget		vetland hydrolog	gy must be presen	t, unless dist	turbed or pro				*
Restrictive	e Layer (if observed		vetland hydrolog	gy must be presen	t, unless dist	turbed or pre	oblematic.			
estrictive Type	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?	Yes ⊠	No 🗆
testrictive Type Depti	e Layer (if observed	d):	vetland hydrolog	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
testrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
estrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
testrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
estrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
Restrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
Restrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
Restrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
Restrictive Type Depti	e Layer (if observed	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d):	<u> </u>	gy must be presen	t, unless dist	turbed or pro	oblematic.	il Present?		No 🗆
Restrictive Type Depti	e Layer (if observed	d):	2		t, unless dist	turbed or pro	oblematic.		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d):	<u> </u>			11	oblematic.			No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d):	2			11	oblematic.		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d);	2			11	oblematic.		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d);	2			11	oblematic.		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d);	2			11	Hydric So		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d);	2			11	Hydric So		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d);	2			11	Hydric So		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed :: th (inches):	d);				11	Hydric So		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed	d):				11	Hydric So		Yes ⊠	No 🗆
Restrictive Type	e Layer (if observed	d);				11	Hydric So		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed	d):					Hydric So		Yes ⊠	No 🗆
Restrictive Type Depti	e Layer (if observed	d):					Hydric So		Yes ⊠	No 🗆

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/04/2011 Applicant/Owner: Sampling Point: 9 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: Long: Datum: NWI classification: none Soil Map Unit Name: Pistakee silt loam (PrA) Spd Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are "Normal Circumstances" present? Yes 🛛 Are VegetationX, Soil____, or Hydrology ___ significantly disturbed? No 🗆 Are Vegetation____, Soil____, or Hydrology _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation due to mowing. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) Saturation (A3) Marl Deposits (B15) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖂 Depth (inches): Water Table Present? Yes No 🖂 Depth (inches): Saturation Present? Yes 🖂 No 🗆 Depth (inches): 22 Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No indicators of hydrology observed.

LGETATION - Use scientific names of plants.						Sampling F	oint: 9	
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Tes	st works	heet:		4
Pinus sylvestris (planted)	<u>6</u>		NI	Number of Domina	ant Specie	es		
2. Acer negundo	<u>5</u>	\boxtimes	FACW	That are OBL, FA	CW, or FA	AC: <u>2</u>	(A)	
3				Total Number of D	ominant			
4		П	5 2	Species Across Al	II Strata:	4	(B)	
5		П	_	Percent of Domina) (A/B)	
6	-	П	7				2 (140)	
7				Prevalence Index	worksh	eet:		
	<u>11</u>	= Total Cov	/er	Total % Cove	er of:	7	Aultiply by:	
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species	<u>O</u>	x 1 =	<u>0</u>	
1. Pinus sylvestris (planted)	2		NI	FACW species	5	x 2 =	10	
2	·	П		FAC species	61	x 3 =	183	
3.		П	· .	FACU species	37	x 4 =	148	
4				UPL species	8	x 5 =	40	
5				Column Totals:	111	(A)	381	(B)
4 5 6				Preva	alence Inc	dex = B/A =	= 3.4	
7		F7.		Hydrophytic Veg	etation Ir	ndicators:		

2. Acer negundo		5	\bowtie	FACW	That are OBL, FACVV, or FAC: 2 (A)
3			\Box		Total Number of Dominant
4			П	200	Species Across All Strata: 4 (B)
5				William P.	Research of Descious Consists
					Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				7 2 3	And the second s
7					Prevalence Index worksheet:
ф		11	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot si	ze: 30' radius)				OBL species <u>0</u> x 1 = <u>0</u>
1. Pinus sylvestris (planted)		2		NI	FACW species <u>5</u> x 2 = <u>10</u>
2					FAC species 61 x 3 = 183
3			П		FACU species 37 x 4 = 148
4			П	0	TO SECURE AND ADDRESS OF THE PARTY OF THE PA
5					The second distriction of the second
		-			Column Totals: <u>111</u> (A) <u>381</u> (B)
6					Prevalence Index = B/A = 3.4
7		-			Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
		2	= Total Cov	er	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radii	us)				☐ Prevalence Index is =3.0¹
1. Poa pratensis		60	\boxtimes	FAC	☐ Morphological Adaptations¹ (Provide supporting
2. Trifolium repens		33		FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Taraxacum officinale		4		FACU	
4. Plantago major		1	П	FAC	¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
5			П.		be present, unless disturbed or problematic.
6				7.—1.01	Definitions of Vegetation Strata:
7				_	
··—				-	Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
8			_	-	at breast neight (DBH), regardless of neight
9			, 二	-	Sapling/shrub - Woody plants less than 3in. DBH
10					and greater than 3.28 ft (1 m) tall.
11	8		\Box		Herb – All herbaceous (non-woody) plants, regardless
12					of size, and woody plants less than 3.28 ft tall.
		98	= Total Cov	er	
Woody Vine Stratum (Plot size:	· 30' radius)		1 7 7 7 7 7 7 7		Woody vines – All woody vines greater than 3.28 ft in
	. oo radida)		П		height
1	2		Ξ.		
2		_			
3		_		-	Hydrophytic
4			П		Vegetation
		0	= Total Cov	er	Present? Yes ☐ No ☒
Remarks: (include photo numb	per here or on a separate sheet.)	Mowed lav			•
, ,					
2. 8					
9					2
Ti and the state of the state o					
1					

								sence of			
Depth	Matrix		10		Redox Fea			_			
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²		Texture	R	emarks
0-8	2.5Y 3/2	100						Silt loam			.,,,,
8-18	10YR 4/2	75	7.5YR 4/	6	c/p	С	M	Silty clay	loam		
	10YR 3/1	25									
18-23	10YR 2/1	100						Silty clay	loam		
			-	y	_			·	/\/\/_		
	فالمستنبي المستوي			10000							
		-		- 1							
	· .										
¹Tymor C=	Concentration, D=Dep	lation DA	1=Dodugos	I Manteiu	CC=Covered	or Contad Co	ad Cenina		² Location: PL=Por	o Linina Man	Am Amilia
	il Indicators:	neuon, Ki	vi-Reduced	i Matrix,	CS=Covered	or Coated Sal	id Grains	Ind	cators for Problen		
	Histosol (A1)				Polyvalue Bel	ow Surface (S	8) (LRR R,		2 cm Muck (A1		
7/20.00	Histic Epipedon (A2)		127	14 77 1	MLRA 14	127109 5 0			☐ Coast Prairie R	edox (A16) (L	LR K, L, R)
	Black Histic (A3)	v.		2000		face (S9) (LR					3) (LLR K, L, R)
	Hydrogen Sulfide (A4 Stratified Layers (A5)				Loamy Mucky Loamy Gleyed	Mineral (F1)	LKK K, L)		☐ Dark Surface (\$ Polyvalue Belov		
	Depleted Below Dark		A11)		Depleted Mati				☐ Thin Dark Surfa		
0.000	Thick Dark Surface (A	\$1.00 P. C. #55cm			Redox Dark S						2) (LRR K, L, R)
	Sandy Mucky Mineral Sandy Gleyed Matrix				Depleted Darl Redox Depres	Surface (F7)					19) (MLRA 149B) 144A, 145, 149B)
	Sandy Redox (S5)	(34)			redox Depres	ssions (Fo)			Red Parent Ma		144A, 145, 149B)
	Stripped Matrix (S6)								☐ Very Shallow D		TF12)
	Dark Surface (S7) (LF	RR R, ML	RA 149B)						Other (Explain	n Remarks)	
3Indicators	of Hydrophytic vegeta										
	or rivaropriyac vegete	ation and v	wetland hyd	drology n	nust be prese	nt, uniess aist	urbed or pro	oblematic.			
Kestrictiv	e Layer (if observed		wetland hyd	drology n	nust be prese	nt, uniess dist	urbed or pro	oblematic.	San Marian	1000	
Туре	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	nt, unless dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed		wetland hyd	drology n	nust be prese	nt, unless dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Туре	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	nt, unless dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	nt, uniess dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	nt, uniess dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	nt, uniess dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	nt, uniess dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	nt, uniess dist	urbed or pro	0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed) e:		wetland hyd	drology n	nust be prese	# ************************************		0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed e: th (inches):);	i i	. 4				0-2	dric Soil Present?	Yes ⊠	No 🗆
Type Dept	e Layer (if observed e: th (inches):);	i i	. 4				0-2			No 🗆
Type Dept	e Layer (if observed e: th (inches):);	i i	. 4	nust be prese			Ну			No 🗆
Type Dept	e Layer (if observed e: th (inches):): 	5	. 4			\$ 10 to 10 t	Ну			No 🗆
Type Dept	e Layer (if observed e: th (inches):): 	5	. 4			\$ 10 to 10 t	Ну			No 🗆
Type Dept	e Layer (if observed)): 	5					Ну			No 🗆
Type Dept	e Layer (if observed)); 2	5° 1					Ну			No 🗆
Type Dept	e Layer (if observed)); 2	5					Ну			No 🗆
Type Dept	e Layer (if observed)); 2	5° 1					Ну			No 🗆
Type Dept	e Layer (if observed)); 2	8					Ну			No 🗆
Type Dept	e Layer (if observed)); 2	5° 1					Ну			No 🗆
Type Dept	e Layer (if observed)); 2	8					Ну			No 🗆
Type Dept	e Layer (if observed); 2						Ну			No 🗆

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/04/2011 Applicant/Owner: State: WI Sampling Point: 10 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: _ Long: Datum: Soil Map Unit Name: Pistakee silt loam (PrA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, Soil_ ___, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation____, Soil____, or Hydrology __ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Hydrophytic Vegetation Present? Is the Sampled Area ☐Yes ⊠No within a Wetland? Yes □ No Hydric Soils Present? **⊠**Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 4 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation due to mowing. Atypical (mowed) wetland. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) \boxtimes Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) ☐ Sediment Deposits (B2) \boxtimes Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) П FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🗵 Depth (inches): Water Table Present? Yes 🛛 No 🗆 Depth (inches): 18 and rising Saturation Present? Yes 🖾 № П Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes No 🗆 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION	- Use scientific names of	plants.
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Tree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	STATE OF THE STATE
1	7.53			Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2				LANGUAG STATES AND STATES AND
3		<u> </u>		Total Number of Dominant
4				Species Across All Strata: 2 (B)
5			,	Percent of Dominant Species
6		\Box		That Are OBL, FACW, or FAC: 50 (A/B)
7				Prevalence Index worksheet:
**	<u>o</u>	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species <u>2</u> x 1 = <u>2</u>
1		\Box	72	FACW species <u>0</u> x 2 = <u>0</u>
2		· 🗆		FAC species 50 x 3 = 150
3				Lander Service State Control
4			Table 1994	Secretary and a second
5			laminimusia)	UPL species <u>0</u> x 5 = <u>0</u>
				Column Totals: <u>102</u> (A) <u>352</u> (B)
6				Prevalence Index = B/A = 3.45 Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
	0	= Total Cove	er	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0¹
1. Poa pratensis	<u>50</u>	\boxtimes	FAC	 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2. Trifolium repens	50	\boxtimes	FACU	Problematic Hydrophytic Vegetation¹ (Explain)
3. Carex vulpinodea	2		OBL	
1		П		¹ Indicators of hydric soil and wetland hydrology must
4	-		-	Be present, unless disturbed or problematic.
5	-	블	7-77	Definitions of Vegetation Strata:
6		<u></u>		
7	-		-	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8	,		-	at breast height (DBH), regardless of height
9	<u>·</u>			Sapling/shrub Woody plants less than 3in. DBH
10				and greater than 3.28 ft (1 m) tall.
11				Horb All harbassaus (non woods) plants secondless
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	102	= Total Cove	ər	100
Woody Vine Stratum (Plot size: 30' radius)				Woody vines - All woody vines greater than 3.28 ft in
1				height
2		=		
2	_	H	1	
3	-	- <u>-</u>		Hydrophytic
4	-	Ш.		Vegetation Present? Yes □ No ⊠
		= Total Cove		
Remarks: (include photo number here or on a separate shee of soils and hydrology present. Atypical (mowed) wetland. Pl	t.) Problemati	c vegetation due	e to a manag	ged plant community (regular mowing). Hydric indicators
or sons and rivorology present. Atypical (mowed) wetland, P	noto 10.			
				2
9 ± ~	6		ů.	
2 U				
2 0				
\$				

								maence	of indicators.)		
Depth	Matrix		Redox Features								***************************************
(inches)	Color (moist)	%	Color (m	noist)	%	Type ¹	Loc ²		Texture	Ren	marks
0-4	2.5Y 3/1	100	7.5YR 4/6		c/p	С	PL	Muck	-		
4-6.5	5Y 2.5/1	100	7.5YR 4/6		c/p	С	М		clay loam		
6.5-20	2.5Y 3/1	100	7.5YR 4/4		c/p	C	M	Clay	siay iodiii		
		-100	110111111					Olay			
							-				
	-										
		/	47.				-				
			-								
						3 4 1 1 1					
									9.		
						- 10-5		-			
	Concentration, D=Dep	letion, RM	/⊫Reduced M	latrix, CS	=Covered or	Coated Sa	nd Grains		² Location: PL=Pore L	ining, M=Ma	itrix
COSTOCIONO PORCESSORIO	il Indicators:						STANCE OF STANCES		ndicators for Problema		
-	Histosol (A1)			☐ Poly	value Belov		88) (LRR R,		2 cm Muck (A10)		
20 24	Histic Epipedon (A2) Black Histic (A3)		Ŷ.		MLRA 149E		D D MI DA	1 4 4 0 D \	Coast Prairie Red		
	Hydrogen Sulfide (A4))			n Dark Surfa my Mucky M				☐ 5 cm Mucky Peat☐ Dark Surface (S7)		(LLR K, L, R)
	Stratified Layers (A5)				my Gleyed N		(LIXIX IX, L)		☐ Polyvalue Below S		(LRR K. L)
	Depleted Below Dark	Surface (A	A11)		leted Matrix				☐ Thin Dark Surface		
	Thick Dark Surface (A				lox Dark Sur			*	☐ Iron-Manganese M	Masses (F12)) (LRR K, L, R)
	Sandy Mucky Mineral				leted Dark S				☐ Piedmont Floodpl		
	Sandy Gleyed Matrix (Sandy Redox (S5)	(S4)		☐ Red	lox Depressi	ions (F8)		- 1	Mesic Spodic (TA		I4A, 145, 149B)
	Stripped Matrix (S6)								☐ Red Parent Mater☐ Very Shallow Dari		=40)
	Dark Surface (S7) (LR	RR R, MLF	RA 149B)						Other (Explain in I		12)
9. 5.50		(Š									
31 11 1										Nemarks)	
	of Hydrophytic vegeta		vetland hydrol	logy mus	t be present	, unless dist	urbed or pr	oblema		(Ciliarks)	
Restrictive	e Layer (if observed)		vetland hydrol	logy mus	t be present	, unless dist	urbed or pr		tic.		
Restrictive Type	e Layer (if observed) e:		vetland hydro	logy mus	t be present	, unless dist	urbed or pr			Yes 🏻	No 🗆
Restrictive Type Dept	e Layer (if observed)		vetland hydrol	logy mus	t be present	, unless dist	urbed or pr		tic.		No 🗆
Restrictive Type	e Layer (if observed) e:		vetland hydro	logy mus	t be present	, unless dist	urbed or pr		tic.		No 🗆
Restrictive Type Dept	e Layer (if observed) e:		vetland hydrol	logy mus	t be present	, unless dist	urbed or pr		tic.		No 🗆
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Restrictive Type Dept	e Layer (if observed) e:		vetland hydrol	logy mus	t be present.	, unless dist	urbed or pr		tic.		No 🗆
Restrictive Type Dept	e Layer (if observed) e:		vetland hydro	logy mus	t be present.	, unless dist	urbed or pr		tic.		No 🗆
Restrictive Type Dept	e Layer (if observed) e:		vetland hydrol	logy mus	t be present.	, unless dist	urbed or pr		tic.		No 🗆
Restrictive Type Dept	e Layer (if observed) e:		vetland hydrol	logy mus	t be present.	, unless dist	urbed or pr		tic.		No 🗆
Restrictive Type Dept	e Layer (if observed) e:		vetland hydro	logy mus	t be present.	, unless dist	urbed or pr		tic.		No 🗆
Restrictive Type Dept	e Layer (if observed) e:		vetland hydro	logy mus	t be present.	, unless dist	urbed or pr		tic.		No 🗆

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region City/County: City and Town of Waukesha, Waukesha County Project/Site: STH 59 West Bypass Sampling Date: 08/04/2011 Applicant/Owner: State: WI Sampling Point: 11 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: _ Long: Datum: Soil Map Unit Name: Pistakee silt loam (PrA) Spd NWI classification: S3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No M (If no, explain in Remarks) Are Vegetation____, SoilX, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation____, Soil____, or Hydrology ___ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? Yes □ No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed soils due to siltation and sedimantation that has deposited a 3 inch layer of silt loam in the surface profile. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) \Box High Water Table (A2) \boxtimes Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) \boxtimes Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) П Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🖂 No 🗆 Depth (inches): 12 Yes 🛛 Saturation Present? No 🗆 Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes 🛛 No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soils saturated at the surface.

VEGETATION – Use scientific names of plants.				Sampling Point: 11
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1		П	V	Number of Dominant Species
2				That are OBL, FACW, or FAC: 3 (A)
3		П		Total Number of Dominant
4		П		Species Across All Strata: 3 (B)
5				Bt-fBlt-Sl
6			-	Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
	7.			
7				Prevalence Index worksheet:
y*	<u>0</u>	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1	-			FACW species x 2 =
2				FAC species x 3 =
3	1			FACU species x 4 =
4				UPL species x 5 =
5				
6			-	
7				Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
·			-	Rapid Test for Hydrophytic Vegetation
	0	= Total Cov	er	□ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	221		122	☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
Angelica atropurpurea	<u>25</u>	\boxtimes	OBL	data in Remarks or on a separate sheet)
2. <u>Leersia oryzoides</u>	25	\boxtimes	OBL	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Carex vulpinoidea	20	- 🗵	OBL	
4. Aster lucidulus	<u>10</u>	П	FACW	Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
5. Eupatorium perfoliatum	<u>6</u>	П	FACW	
6. Impatiens capensis	<u>6</u>		FACW	Definitions of Vegetation Strata:
7. Verbena hastata	4		FACW	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Symplocarpus foetidus	3		OBL	at breast height (DBH), regardless of height
9. Carex hystericina	2		OBL	
10. Mentha arvensis	2	_	7	Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
	1		OBL	and greater than 5.25 k (1 m) tail.
11. Scirpus atrovirens	7	_	OBL	Herb – All herbaceous (non-woody) plants, regardless
12	7520	П		of size, and woody plants less than 3.28 ft tall.
Manager and the second control of the second	104	= Total Cov	er	Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1		П) j
2				
3		\Box		Hydrophytic
4		П	-	Vegetation
**************************************	0	= Total Cov	er	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet				et) meadow. Photo 11.
2	į.			
1				\$
2				
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Depth	Matrix				Redox Fea								
(inches)	Color (moist)	%	Color (n	noist)	%	Type ¹	Loc ²	1	Textu	re		R	emarks
-6	10YR 3/2	100						Peat					
9	2.5Y 3/1	50	7.5YR 4/6	- 7	c/p	С	M	Silt loa	ım				
	2.5Y 4/1	50											
11	N 1/0	100						Muck	-		_		
-23	2.5Y 3/1	100					-	Silt					-
-23	2.51 3/1	100	-					SIII		-	_		
								VERNEN					
-													
-	<u> </u>		9 									-	
-15.3	<u> </u>									- 1			
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		S)			C X = 1 UVUIT			10000					
	Concentration, D=De	epletion, RM	1=Reduced M	latrix, CS	=Covered c	or Coated Sa	nd Grains		- Company of the Comp			ning, M=N	the second secon
	Indicators:											c Hydric	
	Histosol (A1)			☐ Pol		w Surface (S	8) (LRR R,		22222 0000				MLRA 149B)
	Histic Epipedon (A2) Black Histic (A3)			☐ Thi	MLRA 149	асе (S9) (LR	RR MIDA	140P\					.LR K, L, R) 3) (LLR K, L, R)
	Hydrogen Sulfide (A	4)				Mineral (F1)		(1490)				(LRR K, L	
	Stratified Layers (A5					Matrix (F2)	() (LRR K, L)
	Depleted Below Dar		A11)		pleted Matri							(S9) (LRR	
	Thick Dark Surface	(A12)		☐ Re	dox Dark Su	urface (F6)							2) (LRR K, L, F
	Sandy Mucky Miner					Surface (F7)							19) (MLRA 149
100000	Sandy Gleyed Matri:	x (S4)		☐ Re	dox Depress	sions (F8)				lesic Spo			144A, 145, 149I
	Sandy Redox (S5)									ed Paren			TE40\
	Stripped Matrix (S6)		2A 149B)							ery Shallo	w Dark	Surface (TF12)
			RA 149B)	2							w Dark	Surface (TF12)
	Stripped Matrix (S6)	RR R, MLF		ology mus	st be presen	nt, unless dist	urbed or pre	oblemati		ery Shallo	w Dark	Surface (TF12)
dicators	Stripped Matrix (S6) Dark Surface (S7) (L	RR R, MLF		ology mus	st be presen	nt, unless dist	urbed or pre	oblemati		ery Shallo	w Dark	Surface (TF12)
dicators estrictive	Stripped Matrix (S6) Dark Surface (S7) (Left) of Hydrophytic veges Layer (if observed)	RR R, MLF		ology mus	st be presen	ıt, unless dist	urbed or pro		c.	ery Shallo	ow Dark lain in R	Surface (No 🗆
dicators of the strictive Type: Depth	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	RR R, MLF tation and v	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shallo ther (Exp oil Prese	ow Dark lain in R	Surface (*emarks)	No 🗆
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches):	LRR R, MLF tation and v d):	vetland hydro		1			. H	c.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches): Surface layer is bised occurs in the upper	LRR R, MLF tation and v d): cted by a 3 in 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	. H	c.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*emarks)	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches): Surface layer is bised occurs in the upper	LRR R, MLF tation and v d):	vetland hydro	silt and s	ediment ma		steep slope	. H	c.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed in (inches): Surface layer is bised occurs in the upper	LRR R, MLF tation and v d): cted by a 3 in 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	. H	c.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
ndicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	tation and v d): cted by a 3 in 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	oc.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	tation and v d): cted by a 3 in 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	oc.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	tation and v d): cted by a 3 in 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	oc.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
ndicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	tation and v d): cted by a 3 in 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	oc.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
ndicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	tation and v d): cted by a 3 in 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	oc.	ery Shalld ther (Exp oil Prese t residenti	ow Dark lain in R nt? al land t	Surface (*demarks) Yes Juses. Oth	No □ erwise, 8 inches
ndicators of estrictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	LRR R, MLF tation and v d): cted by a 3 is 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	dydric S	ery Shalld	ow Dark lain in R	Surface (*demarks) Yes ⊠ uses. Oth	No □ erwise, 8 inches
ndicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	LRR R, MLF tation and v d): cted by a 3 is 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	dydric S	ery Shalld	ow Dark lain in R	Surface (*demarks) Yes ⊠ uses. Oth	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	LRR R, MLF tation and v d): cted by a 3 is 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	dydric S	ery Shalld	ow Dark lain in R	Surface (*demarks) Yes ⊠ uses. Oth	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	LRR R, MLF tation and v d): cted by a 3 is 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	dydric S	ery Shalld	ow Dark lain in R	Surface (*demarks) Yes ⊠ uses. Oth	No □ erwise, 8 inches
dicators of strictive Type: Depthemarks: S	Stripped Matrix (S6) Dark Surface (S7) (Lof Hydrophytic vege Layer (if observed on the content of the content o	LRR R, MLF tation and v d): cted by a 3 is 16 inches.	vetland hydro	silt and s	ediment ma	terials due to	steep slope	es from	dydric S	ery Shalld	ow Dark lain in R	Surface (*demarks) Yes ⊠ uses. Oth	No □ erwise, 8 inches

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/24/2011 Applicant/Owner: Sampling Point: 12 State: WI Section, Township, Range: NW 1/4 Section 17, T6N, R19E Investigator(s): Donald M. Reed, PhD., SEWRPC Landform (hillslope, terrace, etc.): seasonal drainage way Local relief (concave, convex, none): slightly concave Lat: Slope (%): 1-3% Long: Datum: Soil Map Unit Name: Pistakee silt loam (PrA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) _, Soil Are Vegetation __, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 naturally problematic? _, Soil_ ___, or Hydrology __ (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 5 Remarks: (Explain alternative procedures here or in a separate report.) Below average precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) \bowtie Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) \boxtimes Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) ☐ Sediment Deposits (B2) □ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aguitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) ☐ FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🖂 Depth (inches): 17 Saturation Present? Yes 🛛 No 🗆 Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes X No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soils saturated at the surface.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer negundo	25	⋈	FACW	Number of Dominant Species
2. Populus tremuloides	20	\boxtimes	FAC	That are OBL, FACW, or FAC: 5 (A)
3. Tilia americana	<u>15</u>		FACU	Total Number of Dominant
4. Quercus bicolor	12		FACW	Species Across All Strata: 8 (B)
5. Morus alba	2	П	FAC	Percent of Dominant Species
6		П		That Are OBL, FACW, or FAC: 63 (A/B)
7	1	\Box		Prevalence Index worksheet:
* * * *	<u>74</u>	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1. Rhamnus cathartica	<u>15</u>		FACU	FACW species x 2 =
2. Viburnum opulus	<u>6</u>	\boxtimes	NI	FAC species x 3 =
3. Sambucus canadensis	<u>5</u>	П	FACW	FACU species x 4 =
4. Ribes americanum	1	П	FACW	UPL species x 5 =
5	-		-	Column Totals: (A) (B)
6			<u> </u>	Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
-	27	= Total Cov	er	☐ Rapid Test for Hydrophytic Vegetation ☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				Prevalence Index is =3.01
1. Impatiens capensis	33	\boxtimes	FACW	☐ Morphological Adaptations¹ (Provide supporting
2. Urtica dioica	25		FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Bidens vulgata	20		FACW	
Phalaris arundinacea	10	П	FACW	Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
Rubus occidentalis	<u>5</u>		NI	
6. Solidago altissima x gigantea	<u>5</u>		NI	Definitions of Vegetation Strata:
7. Ambrosia trifida	3		FAC	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Epilobium coloratum	3		OBL	at breast height (DBH), regardless of height
9. Vitis riparia	- <u>3</u>		FACW	
10. Aster lateriflorus	2	П	FACW	Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11. Verbena urticifolia	2	H	FAC	Delication 100 Color 100
12. Carex vulpinoidea	1		OBL	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12. Garex vulpinologa	115*	= Total Cov		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' radius)	113	- Total Cov	ei.	Woody vines – All woody vines greater than 3.28 ft in
No. AND TAKEN SHOULD SH	6	\boxtimes	FACW	height
1. Vitis riparia	ō		PACW	
2		<u> </u>	-	· · · · · · · · · · · · · · · · · · ·
3		. 💾		Hydrophytic
4				Vegetation Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet	6 \ * Other NO	= Total Cov		
(1%) FACW, and Solanum dulcamara (1%) FAC. Fresh (wet)	meadow. Pl	noto 12.	irbs include.	nackella virginiana (1%) PAC, Polygonum perisicana
P				
				x 8
, F				
1				g.
1				
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Number N		scription: (Describe Matrix	to the dep	ni needed to d				ibsence (or indicators.)	1 10 200	
September Sept	Depth (inches)		0/.	Color (mai			1.002	_	Touture	Barrard	W2
August A			-				-	Muels	Texture	Reman	KS
Type: C=Concentration_D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains	-	The state of the s	-						av la am	- 1	
Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS=Covered or Coated Sand Grains Tupos Tu	4-10	2.01 2.0/1	100				-	Silty Cia	ay loam		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains	13-23	N 2 5/0	100	7.51K 4/0	СТР		IVI	Clay lo	am		
Hydric Soil Indicators:	10-20	14 2.0/0	- 100					Clay lo	am		
Hydric Soil Indicators:								(F)			
Hydric Soil Indicators:				N							
Hydric Soil Indicators:		5 10	-				-	-			
Hydric Soil Indicators:	10		-								
Hydric Soil Indicators:			M-80 -	-				0.000			
Hydric Soil Indicators:								-07/10-11-01-			
Hydric Soil Indicators:	5									17-11-11-11	
Hydric Soil Indicators:			11					-			
Histosol (A1)	¹Type: C=	Concentration, D=Dep	oletion, RM	1=Reduced Matr	rix, CS=Covere	d or Coated Sa	nd Grains	11111			
Histle Epipedon (A2)				_	1 P-1	L C ((C					
Type:	Indicators	Black Histic (A3) Hydrogen Sulfide (A4 Stratified Layers (A5) Depleted Below Dark Thick Dark Surface (/ Sandy Mucky Minera Sandy Gleyed Matrix Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta	Surface (A A12) (S1) (S4) RR R, MLF	A11)	Thin Dark St Loamy Muck Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre	urface (S9) (LR ty Mineral (F1) ed Matrix (F2) strix (F3) Surface (F6) rk Surface (F7) essions (F8)	(LRR K, L)		5 cm Mucky Peat Dark Surface (S7 Polyvalue Below Thin Dark Surface Iron-Manganese Piedmont Floodp Mesic Spodic (TA Red Parent Mate Very Shallow Dar Other (Explain in	or Peat (S3) (LL) (LRR K, L) Surface (S8) (LR e (S9) (LRR K, L) Masses (F12) (LI lain Soils (F19) (M .6) (MLRA 144A, rial (TF2) k Surface (TF12)	R K, L, R) R K, L) RR K, L, R) RR K, L, R) MLRA 149B) 145, 149B)
Depth (inches):	22.50):								
Remarks: Site is dominated by hydrophytes, has soils saturated to the surface, and a 4 inch muck layer. Therefore, soils are hydric.	1125 = 30	The state of the s						н	ydric Soil Present?	Yes 🛛 No	· 🗆
			vdrophyte	s, has soils satu	rated to the sur	face, and a 4 ir	nch muck la	ver The	refore soils are hydric		
	*	one dominated by i	yaropnyto	o, mao oono oata	atou to the sui	idoo, and a 4 ii	TOTT THOOK TO	iyor. The	relore, soils are riyario.		
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	e e					# # # # # # # # # # # # # # # # # # #	8 9 9				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/25/2011 Applicant/Owner: Sampling Point: 13 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: Long: Datum: Soil Map Unit Name: Pistakee silt loam (PrA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 Are Vegetation____, Soil____, or Hydrology naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) Drainage Patterns (B10) \Box High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Microtopographic Relief (D4) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🛛 Depth (inches): Water Table Present? Yes 🗌 Depth (inches): _ No 🛛 Saturation Present? Yes 🛛 No 🗆 Depth (inches): 17 Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

T Stt (DI-1 201 II)	Absolute	Dominant	Indicator	B
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
Quercus macrocarpa	<u>50</u>		FAC	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2. <u>Tilia americana</u>	33		FACU	That are OBL, FACW, or FAC: 4 (A)
3. Acer negundo	<u>25</u>	⊠	FACW	Total Number of Dominant
4	-			Species Across All Strata: 8 (B)
5			Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whic	Percent of Dominant Species
6	74	П		That Are OBL, FACW, or FAC: 50 (A/B)
7	- 4			Prevalence Index worksheet:
50A-1-5	108	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species <u>0</u> x 1 = <u>0</u>
Rubus occidentalis	25	\boxtimes	NI	FACW species 35 x 2 = 70
2. Acer negundo	10	\boxtimes	FACW	
con sensitivities and the control of	10	\boxtimes	FACU	FAC species <u>98</u> x 3 = <u>294</u>
3. Prunus serotina			VARIOUS (1)	FACU species <u>84</u> x 4 = <u>336</u>
4. Rhamnus cathartica	<u>5</u>		FACU	UPL species <u>40</u> x 5 = <u>200</u>
5. Rosa multiflora	1	. 🖳	FACU	Column Totals: <u>257</u> (A) <u>900</u> (B)
6	-		-	Prevalence Index = B/A = 3.5
7				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	<u>51</u>	= Total Cov	er	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0 ¹
1. Alliaria officinalis	33		FAC	☐ Morphological Adaptations¹ (Provide supporting
2. Parthenocissus guinquefolia	25	\boxtimes	FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
3. Rubus occidentalis	10		NI	
6 00098 NO 880 1	5	□	NI	¹ Indicators of hydric soil and wetland hydrology must
4. Arctium minus		1		Be present, unless disturbed or problematic.
5. Geum canadense	<u>5</u>	므	FAC	Definitions of Vegetation Strata:
6. Hackelia virginiana	<u>5</u>		FAC	Deminions of Vegetation Strata.
7. Polygonum virginianum	<u>5</u>	П	FAC	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Prunus serotina	<u>5</u>		FACU	at breast height (DBH), regardless of height
9. Galium aparine	3	П	FACU	Sapling/shrub – Woody plants less than 3in. DBH
10. Rosa multiflora	2	П	FACU	and greater than 3.28 ft (1 m) tall.
11			-	Harb All barbarous (see weed A starte secondless
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	98	= Total Cov	er	or one of the ready plants loss than one of the
Woody Vine Stratum (Plot size: 30' radius)	1.752	10101		Woody vines - All woody vines greater than 3.28 ft in
				height
1		<u></u>		
2		<u> </u>	\ 	
3.		П.	_	Hydrophytic
4	-	Ш		Vegetation Present? Yes □ No ☒
	0	= Total Cov		Present: Tes No Z
Remarks: (include photo number here or on a separate shee	t.) Hardwood	forest. Photo	13.	ħ
8				
				P .
· 2				
JA.				
Th				X X

Profile De	escription: (Describe t	o tne deptr	needed	to doct	ament the ma	outor or oo	ntirm the ai	bsence	of indicators.)	An-	
Depth	Matrix				Redox Feat						-100
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	 (2 <u>—17</u> 1	Texture	Re	marks
0-9	2.5Y 2.5/1	100						Silty o	clay loam		
9-22	10YR 2/1	100	Sianomia					Silty o	clay		
22-26	N 1/0	100						Clay			
									4		
	- 18 11 						<u> </u>				
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	-01-11-1							-			
						_		-			William - II.
¹Type: C=	Concentration, D=Dep	letion, RM=	Reduced	Matrix.	CS=Covered o	r Coated Sa	nd Grains		² Location: PL=Por	e Lining, M=M	atrix
Hydric Sc	oil Indicators:			- III			1	, 1	ndicators for Probler		
0.00	Histosol (A1)				Polyvalue Belo		8) (LRR R,		2 cm Muck (A1		
(22.1)	Histic Epipedon (A2)				MLRA 149	17.61		4400	☐ Coast Prairie F		
	Black Histic (A3) Hydrogen Sulfide (A4)		34	The state of the s	Thin Dark Surfa Loamy Mucky I	ACCOUNT OF TAXABLE PARTY		(149B)	☐ 5 cm Mucky Pe		
	Stratified Layers (A5)				Loamy Gleyed		(LIXIX IX, L)		☐ Polyvalue Belo		
	Depleted Below Dark		1)	Comments 1	Depleted Matri:				☐ Thin Dark Surf		
-	Thick Dark Surface (A	1000000v4			Redox Dark Su						() (LRR K, L, R)
	Sandy Mucky Mineral Sandy Gleyed Matrix (Depleted Dark Redox Depress						9) (MLRA 149B) 44A, 145, 149B)
H	Sandy Redox (S5)	,34)			Redox Depress	sions (Fo)			Red Parent Ma		44A, 145, 149b)
	Stripped Matrix (S6)								☐ Very Shallow □		F12)
	Dark Surface (S7) (LR	R R, MLRA	(149B)						Other (Explain	in Remarks)	
3Indicators	s of Hydrophytic vegeta	tion and we	tland byc	trology n	nuet he precen	t unless dis	urbed or pr	obloma	tio		
	ve Layer (if observed)		dand riye	nology II	idat be presen	t, unicoo uio	dibed of pit	Oblema	110.	_	
Туре									Hydric Soil Present?	Yes 🗌	No 🖂
-	th (inches):					3				10.00 	1975 1 77 5
Remarks:	Low chroma wetland se	oils present.	Does n	ot meet	a hydric soils i	ndicator.					
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/04/2011 Applicant/Owner: Sampling Point: 14 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 0-3% Long: Datum: Soil Map Unit Name: Brookston silt loam (BsA) Pd NWI classification: T3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation_ _, Soil____, or Hydrology __ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? Yes □ No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠Yes** □No If yes, optional Wetland Site ID: PCA No. 7 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) \boxtimes Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖂 Depth (inches): Water Table Present? Depth (inches): Yes 🗌 No 🖾 Saturation Present? Yes 🛛 No 🗌 Depth (inches): 0 (at surface) Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Water discharges at the surface.

T Stt (Di-t-i 20)di)	Absolute	Dominant	Indicator	Parriagnes Test medicilies
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1. Populus tremuloides	<u>25</u>		FAC	Number of Dominant Species That are OBL, FACW, or FAC: <u>5</u> (A)
2. Juglans nigra	<u>15</u>		NI	is represented the transport and all and the proposition of the angle
3	-	<u> </u>		Total Number of Dominant
4		<u> </u>		Species Across All Strata: 7 (B)
5	***************************************	ш		Percent of Dominant Species
6		Д		That Are OBL, FACW, or FAC: 71 (A/B)
7	-	ш		Prevalence Index worksheet:
ř.	<u>40</u>	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1. Rhamnus cathartica	25	\boxtimes	FACU	FACW species x 2 =
2. Viburnum lentago	20	\boxtimes	FAC	FAC species x 3 =
3. Cornus stolonifera	5		FACW	FACU species x 4 =
4. Fraxinus pennsylvanica	5		FACW	UPL species x 5 =
5. Ribes americanum	1		FACW	Column Totals: (A) (B)
6	725 A - 6 3		15-3	Prevalence Index = B/A =
7.			1: -	Hydrophytic Vegetation Indicators:
	56	= Total Cov		Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)	30	- Total Cov	ei	□ Dominance Test is >50% □ Prevalence Index is =3.0¹
1. Carex stricta	40	\boxtimes	OBL	☐ Morphological Adaptations¹ (Provide supporting
	33		FACW	data in Remarks or on a separate sheet)
2. Impatiens capensis	<u>15</u>		FACW	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Pilea pumila		=		1 Indicators of hydric soil and wetland hydrology must
4. Agrostis stolonifera	10	П	FACW	Be present, unless disturbed or problematic.
5. Aster lateriflorus	4		FACW	
6. Carex hystericina	2		OBL	Definitions of Vegetation Strata:
7. Glyceria striata	2		OBL	Tree - Woody plants 3in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height
9			_	Sapling/shrub - Woody plants less than 3in. DBH
10			, <u></u>	and greater than 3.28 ft (1 m) tall.
11				Harb All harbassas (assumed Aslanta assume
12	1		35	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
# ## ## ## ## ## ## ## ## ## ## ## ## #	106	= Total Cov	er	
Woody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis riparia	10		FACW	height
2		П		
3		$\overline{}$		9
4	-	_		Hydrophytic Vegetation
T	10	= Total Cov		Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet				ubs and hardwoods. Photo 14.
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(i)				

	Matrix			Redox Features							
nches)	Color (me	oist)	%	Color (mois	st) %	Type ¹	Loc ²		Texture	F	Remarks
20	5Y 2.5/1		100					Muck			
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be. C=0	Concentration	D=Depleti	ion RM=R	educed Matri	x, CS=Covered	or Coated S	and Graine		² Location: PL=P	oro Lining M-I	Mately
dric Soi	il Indicators:	D-Depiet	ion, ixivi-ix	educed Matri	x, co-covered	or Coated 5	and Grains	Inc	licators for Probl		
	Histosol (A1)				Polyvalue Be	low Surface	S8) (LRR P	inc			, MLRA 149B)
	Histic Epipedo	n (A2)		-	MLRA 1	Alter California de marca de marca de la compansa del la compansa de la compansa	-o/ (Link it)			Redox (A16) (
	Black Histic (A				Thin Dark Su		RR MIRA				3) (LLR K, L, R)
	Hydrogen Sulf			ō	Loamy Muck			0.000	☐ Dark Surface	(S7) (LRR K,	L)
	Stratified Laye				Loamy Gleye		(low Surface (S	
	Depleted Belo		rface (A11		Depleted Ma					rface (S9) (LRI	
\Box	Thick Dark Su	rface (A12)		Redox Dark S						12) (LRR K, L, R
	Sandy Mucky	Mineral (S	1)		Depleted Dar		7)				F19) (MLRA 149
	Sandy Gleyed	Matrix (S4	1)		Redox Depre						144A, 145, 149E
	Sandy Redox	(S5)				N 8			Red Parent N		30 1
	Stripped Matri:									Dark Surface	(TF12)
	Dark Surface (S7) (LRR	R, MLRA	149B)					Other (Explai	n in Remarks)	
										anaaraa waanaa ah oo ah ah waa	
			n and wetla	and hydrolog	y must be prese	ent, unless di	sturbed or pro	blematic.			
strictive	Layer (if ob:	served):								*	
Trans								Hv	dric Soil Present	and the second second	
Type:	1000								and com i reconn	? Yes ⊠	No 🗆
Depth	h (inches):	<u>. </u>								? Yes ⊠	No 🗆
Depth	1000	ated at the	surface.							? Yes ⊠	No 🗆
Depth	h (inches):	ated at the	surface.	·		10				? Yes⊠	No 🗆
Depth	h (inches):	ated at the	surface.	0			4 0			? Yes⊠	No 🗆
Depth	h (inches):	ated at the	surface.	0						? Yes⊠	No 🗆
Depth	h (inches):	ated at the	surface.	0						? Yes ⊠	No 🗆
Depth	h (inches):	ated at the	surface.	0	,	100				? Yes ⊠	No 🗆
Depth	h (inches):	ated at the	surface.	0						? Yes ⊠	No 🗆
Depth	h (inches):	ated at the	surface.	0		4 =				? Yes ⊠	No 🗆
Depth	h (inches):			0	,	d c				? Yes ⊠	No 🗆
Depth	h (inches):	ated at the		0	,	d e				? Yes ⊠	No 🗆
Depth	h (inches):			0	,	d e				? Yes ⊠	No 🗆
Depth	h (inches):			0	,	# *				? Yes ⊠	No 🗆
Depth	h (inches):			0 1	,	4 4				? Yes ⊠	No 🗆
Depth	h (inches):				,		g .			? Yes ⊠	No 🗆
Depth	h (inches):						g .			? Yes ⊠	No 🗆
Depth	h (inches):									? Yes ⊠	No 🗆
Depth	h (inches): Goils are satura				ŧ					? Yes ⊠	No 🗆
Depth	h (inches): Goils are satura				ŧ		# G			? Yes ⊠	No 🗆
Depth	h (inches): Goils are satura				ŧ		# G				No 🗆
Depth	h (inches): Goils are satura				ŧ		# G				No 🗆
Depth	h (inches): Goils are satura				ŧ						No 🗆
Depth	h (inches): Goils are satura				ŧ						No 🗆
Depth	h (inches): Goils are satura				ŧ						No 🗆
Depth	h (inches): Goils are satura					3. V					No 🗆
Depth	h (inches): Goils are satura										No 🗆

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: City and Town of Waukesha, Waukesha County Project/Site: STH 59 West Bypass Sampling Date: 08/04/2011 Applicant/Owner: State: WI Sampling Point: 15 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 17, T6N, R19E Local relief (concave, convex, none): slight convex Landform (hillslope, terrace, etc.): slight hillslope Slope (%): 0-3% Long: Datum: NWI classification: T3/E2K Soil Map Unit Name: Brookston silt loam (BsA) Pd Are climatic/hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? ↑ Yes 🛛 No 🗌 _, Soil____, or Hydrology __ ___ naturally problematic? (If, needed, explain any answers in Remarks.) Are Vegetation_ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) □ Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Dry-Season Water Table (C2) П Saturation (A3) Marl Deposits (B15) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Stunted or Stressed Plants (D1) Presence of Reduced Iron (C4) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes No 🛚 Depth (inches): _ Saturation Present? Yes 🗌 No 🖂 Depth (inches): Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Juglans nigra	50		NI	Number of Dominant Species
2. Quercus macrocarpa	20	\boxtimes	FAC	That are OBL, FACW, or FAC: 4 (A)
3. Quercus rubra	<u>15</u>		FACU	Total Number of Dominant
4. Populus tremuloides	<u>10</u>	П	FAC	Species Across All Strata: 8 (B)
5		- п	1 2 2	Percent of Dominant Species
6		П		That Are OBL, FACW, or FAC: 50 (A/B)
7				Prevalence Index worksheet:
· ·	95	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species <u>0</u> x 1 = <u>0</u>
Zanthoxylum americanum	50		NI	FACW species 26 x 2 = 52
2. Rubus occidentalis	10		NI	Service Company of the Company of th
Quercus macrocarpa	5		FAC	
4. Lonicera X bella	1	<u> </u>	NI	FACU species <u>31</u> x 4 = <u>124</u>
	÷.		141	UPL species <u>114</u> x 5 = <u>570</u>
5 6		=		Column Totals: 223 (A) 902 (B)
				Prevalence Index = B/A = 4.0 Hydrophytic Vegetation Indicators:
7		П	-	Rapid Test for Hydrophytic Vegetation
Hart Charles (District Street	<u>66</u>	= Total Cov	er	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	40	624	F40	☐ Prevalence Index is =3.0¹ ☐ Morphological Adaptations¹ (Provide supporting
1. Geum canadense	10	×	FAC	data in Remarks or on a separate sheet)
2. Oxalis stricta	<u>6</u>		FACU	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Carex blanda	<u>5</u>	\boxtimes	FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Parthenocisus quinquefolia	<u>5</u>	\boxtimes	FACU	Be present, unless disturbed or problematic.
5. Arisaema triphyllum	3		FACW	
6. Dipsacus sylvestris	3		NI	Definitions of Vegetation Strata:
7. Rhamnus cathartica	<u>3</u>	П	FACU	Tree - Woody plants 3in. (7.6 cm) or more in diameter
8. Vitis riparia	3	\Box	FACW	at breast height (DBH), regardless of height
9. Circaea lutetiana	2		FACU	Sapling/shrub - Woody plants less than 3in. DBH
10. Fragaria virginiana	2		FAC	and greater than 3.28 ft (1 m) tall.
11				H-L All back and A
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	42	= Total Cov	er	decimal and the same of the sa
Woody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in
1. Vitis riparia	20	\boxtimes	FACW	height
2.	0000	$\overline{\Box}$	All STATE SALAR	
3			2 3 1 3	Secretary of Taxon
4		_		Hydrophytic Vegetation
7	20	= Total Cov		Present? Yes □ No ⊠
Remarks: (include photo number here or on a separate sheet			the state of the s	
	.			
7. V				
			0	

-	-	•	н	
•		1		

Depth	Matrix			Redox Fea	atures						
inches)	Color (moist)	%	Color (moi	ist) %	Type ¹	Loc ²	50 ·	Texture :		R	emarks
16	N 1/0	100			7		Silt loam	- CALLET			
5-18	10YR 3/1	100			-		Clay loan	100			
3-23	10YR 4/3	100	7.5YR 4/6	c/p	С						-
-20	1011/4/3	100	7.011 4/0			IVI	Clay				
		-			1/4				1000		
		V==-						-		- 1	
					-			*			
			7,				-	-0			
- 18W											
	·									0.1	
pe: C=	Concentration, D=Dep	oletion, RN	/=Reduced Mat	rix, CS=Covered	or Coated Sa	nd Grains		Location	PL=Pore	Lining, M=M	latrix
	il Indicators:						Indi			tic Hydric S	
	Histosol (A1)			[-] [[[[[[[[[[[[[[[[[88) (LRR R,					MLRA 149B)
	Histic Epipedon (A2) Black Histic (A3)			MLRA 14		D D MI DA	1400)				LR K, L, R)
	Hydrogen Sulfide (A4	7		프로그램 시간 경험 경험 경험 경험 경험 경험 경험			149B) [54 HARRIO - BRUD	t or Peat (S3 ') (LRR K, L) (LLR K, L, R)
	Stratified Layers (A5)	5		프로그 경기에 하지만 하지 그렇게 있다니다.		(LKK K, L)))(LRR K, L)
-	Depleted Below Dark			프로 그렇게 되었는데, 그는 이번 사람이다.			- 5			e (S9) (LRR	
	Thick Dark Surface (A						Ė				2) (LRR K, L, R
	Sandy Mucky Mineral			프로그램 사이트 경영화 개발 경기를 받는다.		,	Ī				19) (MLRA 149
	Sandy Gleyed Matrix					/	Ē				44A, 145, 149I
	Sandy Redox (S5)	8	_		THE STATE OF THE S		č		arent Mate		
	Stripped Matrix (S6)						Ē			rk Surface (1	(F12)
	Dark Surface (S7) (LF	RR R, MLI	RA 149B)						/Evolain in		177 H. 1855
								Other	(LApiani III	Remarks)	
								Other	(Explain in	Remarks)	
	of Hydrophytic vegeta	ation and v		gy must be prese	nt, unless dis	turbed or pro	oblematic.	Other	(Схріані ні	Remarks)	
strictive	e Layer (if observed	ation and v		gy must be prese	nt, unless dis	turbed or pro					N. E
strictive Type	e Layer (if observed	ation and v		gy must be prese	nt, unless dis	turbed or pro			resent?	Yes	No 🖂
strictive Type Depti	e Layer (if observed	ation and v		gy must be prese	nt, unless dis	turbed or pro					No 🗵
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro					No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro					No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro					No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro					No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro					No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro					No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro					No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v		gy must be prese	nt, unless dis	turbed or pro		ric Soil F	resent?	Yes □	No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog). 10.		turbed or pro		ric Soil F		Yes □	No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog). 10.		turbed or pro		ric Soil F	resent?	Yes □	No 🖂
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog	gy must be prese			Hyd	ric Soil F	resent?	Yes □	No ⊠
strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog). 10.			Hyd	ric Soil F	resent?	Yes □	No ⊠
Strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
Strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
estrictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
e strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
e strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes □	
e strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
estrictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
Strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
estrictive Type Depti	e Layer (if observed e: th (inches): Upland soils present.	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	
Strictive Type Depti	e Layer (if observed a: th (inches):	ation and v	wetland hydrolog				Hyd	ric Soil F	resent?	Yes 🗆	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/04/2011 Applicant/Owner: Sampling Point: 16 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: Long: Datum: Soil Map Unit Name: Mundelein silt loam (MzfA) Spd NWI classification: T3K Are climatic/hydrologic conditions on the site typical for this time of year? Yes □ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology _ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation _, Soil__ ___, or Hydrology X naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area □No Hydrophytic Vegetation Present? ⊠Yes within a Wetland? Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes No If yes, optional Wetland Site ID: PCA No. 10 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Seasonal hydrology. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) ☐ Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Depth (inches): No 🖾 Water Table Present? Yes Depth (inches): No \boxtimes Saturation Present? Yes No 🗵 Depth (inches): Wetland Hydrology Present? No 🗆 Yes 🛛 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Seasonal hydrology.

ν	EGE	TA	TION	- Use	scientific	names c	of plants
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Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1	76 Cover	Species? Status ☐	AND THE CASE AND A SECOND PROPERTY OF A CONTRACT OF A CONT
2	200		Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)
3.		9=3 V==10	291 30 MS34
		<u> </u>	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
4	_	<u> </u>	Species Across Air Strata. 5 (b)
5		<u> </u>	Percent of Dominant Species
6	-	П ,	That Are OBL, FACW, or FAC: 100 (A/B)
7			Prevalence Index worksheet:
	<u>O</u>	= Total Cover	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)			OBL species x 1 =
1. Salix bebbiana	<u>5</u>		FACW species x 2 =
2. Salix petiolaris	4		FAC species x 3 =
3. Rhamnus cathartica	1	☐ FACU	FACU species x 4 =
4	7774 0 <u>770</u> -		UPL species x 5 =
5	5		
6	ST 12	<u> </u>	Column Totals: (A) (B) Prevalence Index = B/A =
7		<u> </u>	Hydrophytic Vegetation Indicators:
	10		Rapid Test for Hydrophytic Vegetation
Hosto Streeture (Diet since 5' andius)	10	= Total Cover	☑ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	22	M 54004	☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
1. Agrostis stolonifera	33	⊠ <u>FACW</u>	data in Remarks or on a separate sheet)
2. Helianthus grosseserratus	25	⊠ <u>FACW</u>	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Fragaria virginiana	20		1 Indicators of hydric soil and wetland hydrology must
4. Solidago graminifolia	<u>10</u>	☐ <u>FACW</u>	Be present, unless disturbed or problematic.
5, Solidago riddellii	<u>10</u>	□ <u>OBL</u>	
6. Cornus stolonifera	5	FACW	Definitions of Vegetation Strata:
7. Geum aleppicum	<u>5</u>	☐ <u>FAC</u>	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Juncus dudleyi	<u>5</u>	☐ FAC	at breast height (DBH), regardless of height
Phalaris arundinacea	2	☐ FACW	
10. Vitis riparia	2	☐ FACW	Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11			
12			Herb - All herbaceous (non-woody) plants, regardless
() () () () () () () () () ()	117	= Total Cover	of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' radius)		- Total Cover	Woody vines - All woody vines greater than 3.28 ft in
	1		height
1		<u> </u>	
2		Ц	1
3		Ц	Hydrophytic
4		П	Vegetation Present? Yes ⊠ No □
-	<u>0</u>	= Total Cover	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate shee	t.) Fresh (wet)) meadow. Photo 16.	9
9 2			
0 en 10			
2			9:
# "			
1			25
			B
0			- 2
2 1 E			
T. Control of the Con			

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Section of					Daday Fast			bsence		
Depth	Matrix Color (maint)	0/	Colon (Redox Feat	Type ¹	2	-		B
(inches) 0-12	Color (moist) N 2.5/0	100	Color (noist)	%	Туре	Loc²	Cit	Texture	Remarks
12-13.5	2.5Y 2.5/1		EVE AIC		-1-				clay loam	
		100	5YR 4/6		c/p	C	M	Clay I		
13.5-16	2.5Y 4/2	80	7.5YR 4/6		c/p	C	M	Clay I	oam	
46.00	2.5Y 3/1	20	7.570.40					0.111		
16-20	10YR 5/3	100	7.5YR 4/6		c/p	C	M	Silt		
								-		
		-			-			-		
		-								
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	· — — — — — — — — — — — — — — — — — — —									
								_		
100		-						-		
	Concentration, D=Dep	letion, RM=	=Reduced N	Matrix, CS	=Covered o	r Coated Sar	nd Grains		² Location: PL=Pore	Lining, M=Matrix
Commence of the Commence of th	oil Indicators:			2-21 2000			SWIND HERBOOK		ndicators for Problema	ntic Hydric Soils³:
	Histosol (A1) Histic Epipedon (A2)			☐ Pol		w Surface (S	8) (LRR R,			(LRR K, L, MLRA 149B)
	Black Histic (A3)			☐ Thir	MLRA 149	ace (S9) (LR I	D MIDA	140R)		dox (A16) (LLR K, L, R) t or Peat (S3) (LLR K, L, R)
	Hydrogen Sulfide (A4)			Los	amy Mucky I	Mineral (F1) (LRR K, L)	1400)	☐ Dark Surface (S7	
	Stratified Layers (A5)				amy Gleyed					Surface (S8) (LRR K, L)
100	Depleted Below Dark		11)		pleted Matri:	2.5dc (C.F				e (S9) (LRR K, L)
1 2	Thick Dark Surface (A	00 10 0 KG 6 C		100 mm	dox Dark Su					Masses (F12) (LRR K, L, R)
	Sandy Mucky Mineral Sandy Gleyed Matrix (pleted Dark dox Depress	Surface (F7)				lain Soils (F19) (MLRA 149B \6) (MLRA 144A, 145, 149B)
	Sandy Redox (S5)	34)		□ 1/60	dox Depress	sions (Fo)			Red Parent Mate	
	Stripped Matrix (S6)									rk Surface (TF12)
	Dark Surface (S7) (LR	RR, MLR.	A 149B)						☐ Other (Explain in	Remarks)
3Indicators	s of Hydrophytic vegeta	tion and we	atland bydr	ology mus	t he presen	t unless dist	urbed or pre	abloma	lio.	
	e Layer (if observed)		stiana nyan	Jiogy IIIus	ot be presen	t, unioss dist	arbed or pre		uc.	
Туре	e:							ı	Hydric Soil Present?	Yes⊠ No □
	th (inches):									11 th
Remarke:	Division basisson at 40"	Soile have							ion and sedimentation fr	om urban development runof
	oils present based upor		na colors, i	anacoapo	position, ai	id presence o	of hydrophy	tes.		
			na colors, i	amadaapa	position, ar	id presence o	of hydrophy	tes.		
			na colors, i	anaooapo	position, ar	id presence (of hydrophy	tes.		
			na colors, i		position, ar	iu presence c	of hydrophy	tes.		
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			na colors, I		position, ar	u presence (f hydrophy	tes.		
			na colors, i		position, ar	u presence o	f hydrophy	tes.		
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			na colors, i	30		in presence (of hydrophy			
			na colors, i	30	position, ai	u presence c	of hydrophy			
			na colors, i	30			of hydrophy			
	oils present based upor	n low chror	na colors, i	30		u presence c	of hydrophy			
	oils present based upor		na colors, i	30			of hydrophy			
	oils present based upor	n low chror	na colors, i	30			2			
Wetland se	oils present based upor	n low chror	na colors, i	30			of hydrophy			
Wetland se	oils present based upor	n low chror	na colors, i	30			2			
Wetland se	oils present based upor	n low chror					2			
Wetland se	oils present based upor	n low chror	na colors, i				2			
Wetland se	oils present based upor	n low chror					2			
Wetland se	oils present based upor	n low chror					2			

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/04/2011 Applicant/Owner: State: WI Sampling Point: 17 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 17, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Long: Slope (%): 2-6% Lat: Datum: Soil Map Unit Name: Saylesville silt loam (ShB) Wd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation _, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 ___, Soil____, or Hydrology ___ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ☐Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🗌 No 🛛 Depth (inches): _ Saturation Present? Yes 🗌 No 🛛 Depth (inches): Wetland Hydrology Present? Yes 🗌 No 🖂 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No indicators of hydrology observed.

١	/EGET	Δ٦	LION	_ 1 lee	cciontific	namee	of plants
٠,	CGEI	A	מוטוו	=1180	SCIENTITIC	names	of plants

T Stt (Di-t-i 201i)	Absolute	Dominant	Indicator	Barriago Tantanada barta
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1			_	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2			_	COST SERVICE DE LA COST DE LA COST. DEL COST DE LA COST DE LA COST DE LA COST DE LA COST. DEL COST DE LA COST DE LA COST DE LA COST. DEL COST DE LA COST DE LA COST. DEL COST DE LA COST. DEL COST DE LA COST. DEL COST DEL COST. DEL COST DE LA COST. DEL COST.
3	_	므	-	Total Number of Dominant
4	_	<u> </u>	_	Species Across All Strata: 8 (B)
5	-			Percent of Dominant Species
6 7		П	-	That Are OBL, FACW, or FAC: 50 (A/B)
7				Prevalence Index worksheet:
,	<u>0</u>	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species <u>5</u> x 1 = <u>5</u>
1. Cornus racemosa	<u>3</u>	\boxtimes	FACW	FACW species 42 x 2 = 84
2. Lonicera X bella	3	\boxtimes	NI	FAC species 22 x 3 = 66
3. Rhamnus cathartica	2	\boxtimes	FACU	angel Manager Sala were 1976
4. Ulmus rubra	<u>2</u>	⊠	FAC	
	<u>-</u>		IAO	UPL species <u>13</u> x 5 = <u>65</u>
5 6			**********	Column Totals: <u>116</u> (A) <u>356</u> (B)
		무	17	Prevalence Index = B/A = 3.1 Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
	<u>10</u>	= Total Cov	/er	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	11.	_		☐ Prevalence Index is =3.0¹ ☐ Morphological Adaptations¹ (Provide supporting
1. Cornus racemosa	33	⋈	FACW	data in Remarks or on a separate sheet)
2. Monarda fistulosa	<u>15</u>	\boxtimes	FACU	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Erigeron strigosus	<u>10</u>	\boxtimes	FAC	The disease of header will and a subset of header when the
4. Melilotus alba	10	\boxtimes	FACU	Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
5. Fragaria virginiana	<u>5</u>	. Д	FAC	
6. Pastinaca sativa	<u>5</u>		NI	Definitions of Vegetation Strata:
7. Poa pratensis	<u>5</u>		FAC	Tree Weeds plants 2in (7.6 cm) or more in diameter
8. Solidago altissima	<u>5</u>	- 🗖	FACU	Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
	3		FACW	
9. Aster novae-angliae			100000000000000000000000000000000000000	Sapling/shrub – Woody plants less than 3in. DBH
10. Solidago riddellii	3	무	OBL	and greater than 3.28 ft (1 m) tall.
11. Aster pilosus	2		FACU	Herb - All herbaceous (non-woody) plants, regardless
12. Aster sagittifolius	2		NI	of size, and woody plants less than 3.28 ft tall.
The second of the second secon	103*	= Total Cov	/er	Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1. Vitis riparia	3		FACW	7.
2				
3		П		Hydrophytic
4				Vegetation
	3	= Total Cov	/er	Present? Yes ☐ No ☒
Remarks: (include photo number here or on a separate sh	eet.) *Other NC			Daucus carota (2%) NI, Rosa palustris (2%) OBL, Carex
sp. (1%) Nl. Old field. Photo 17,				
V (1)				
Ş				\$ * * * * * * * * * * * * * * * * * * *
Ā.				
2				
9 2				

Depth	Matrix			Redox Feat				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
-9	10YR 2/1	100				S	ilty clay loam	
-17	7.5YR 4/4	50		-		С	lay loam	
	7.5YR 3/1	50						
7-22	10YR 4/3	67	144 Av. 1				lay loam	
	10YR 4/2	33					- Indy Idam	
	1011(4/2							
	-							-1
-			2					*
	OHERTER TO SEE							
		Ve			5		1	
						8.1		
8	5 to 15 to 1	8-11-11-11-11-11-11-11-11-11-11-11-11-11			-			
entreprised the property benefits	Concentration, D=Dep	oletion, RM=	Reduced Matrix,	CS=Covered o	r Coated Sar	nd Grains	² Location: PL=Pore	E Lining, M=Matrix
	il Indicators:			421100000000000000000000000000000000000			Indicators for Problem	
1000	Histosol (A1)			Polyvalue Belov		8) (LRR R,) (LRR K, L, MLRA 149B)
	Histic Epipedon (A2) Black Histic (A3)			MLRA 149 Thin Dark Surfa		D MI DA 14		edox (A16) (LLR K, L, R) at or Peat (S3) (LLR K, L, R)
	Hydrogen Sulfide (A4	Δ		Loamy Mucky M			Dark Surface (S	
	Stratified Layers (A5)			Loamy Gleyed		Little, L)		v Surface (S8) (LRR K, L)
	Depleted Below Dark			Depleted Matrix				ce (S9) (LRR K, L)
	Thick Dark Surface (A			Redox Dark Su	rface (F6)			Masses (F12) (LRR K, L, R
	Sandy Mucky Minera			Depleted Dark				plain Soils (F19) (MLRA 149
2.0	Sandy Gleyed Matrix	(S4)		Redox Depress	sions (F8)			A6) (MLRA 144A, 145, 149E
	Sandy Redox (S5)						Red Parent Mat	
	Stripped Matrix (S6)		1400					ark Surface (TF12)
	Dark Surface (S7) (LI	RR R, WLRA	(149B)				Other (Explain in	n Remarks)
ndicators	of Hydrophytic vegeta	ation and we	dend budgeless					
			vpolotovn pnam	must be present	t, unless dist	urbed or proble	ematic.	
estrictive	e Layer (if observed		ntana nyarology	must be presen	t, unless dist	urbed or proble	ematic.	
estrictive Type			niand hydrology	must be presen	t, unless dist	urbed or proble	ematic. Hydric Soil Present?	Yes □ No ⊠
Туре			dand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept):		nuana nyarology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		nuaria nyarology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		dand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		mand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		mand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		mand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		mand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		nand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):		nand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches): Upland soils.):	nana nyarology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches):):	nand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless distr	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless dist	urbed or proble		Yes □ No ⊠
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless dist	urbed or proble		
Type Dept	e: th (inches): Upland soils.):	nana nyarology	must be presen	t, unless dist	urbed or proble		
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless distr	urbed or proble		
Type Dept	e: th (inches): Upland soils.):	nana nyarology	must be presen	t, unless distr	urbed or proble		
Type Dept	e: th (inches): Upland soils.):	nana nyarology	must be presen	t, unless distr	urbed or proble		
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless distr	urbed or proble		
Type Dept	e: th (inches): Upland soils.):	nand hydrology	must be presen	t, unless distr	urbed or proble		
Type Dept	e: th (inches): Upland soils.):	ntana nyarology	must be presen	t, unless distr	urbed or proble		

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: State: WI Sampling Point: 18 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: Long: Datum: Soil Map Unit Name: Mundelein silt loam (MzfA) Spd NWI classification: S3/E1K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are "Normal Circumstances" present? Are Vegetation____, Soil____, or Hydrology ___ _ significantly disturbed? Yes 🖂 No 🗌 Are Vegetation _, Soil____, or Hydrology _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? ⊠ Yes Hydric Soils Present? □No ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No.11 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) Hydrogen Sulfide Odor (C1) \boxtimes Crayfish Burrows (C8) PHOTO 18 Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) П Field Observations: Surface Water Present? Yes No 🛛 Depth (inches): Water Table Present? Yes 🗌 No 🛛 Depth (inches): Saturation Present? Yes 🗌 No 🖂 Depth (inches): _ Wetland Hydrology Present? Yes 🖂 No \square (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Seasonal hydrology. Photo 18.

VEGETATION	- Use scientific names of	f plants.
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Tree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
72	% Cover 5	Species? ⊠	Status FAC	The same of the same same stroke is a stroke of the same same same same same same same sam
1. Populus deltoides	~	<u> </u>	IAC	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2				Jan 1980 - 1
3	A	<u> </u>		Total Number of Dominant Species Across All Strata: 4 (B)
4	-	<u> </u>	_	Species Across All Strata: 4 (B)
5	—		_	Percent of Dominant Species
6	_	П.		That Are OBL, FACW, or FAC: 100 (A/B)
7	-			Prevalence Index worksheet:
t a F	5	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x1 =
1. Cornus amomum	10	\boxtimes	FACW	FACW species x 2 =
2. Rhamnus cathartica	2	П	FACU	FAC species x 3 =
3. Cornus stolonifera	. 1	П	FACW	FACU species x 4 =
	- 1 - 		1 0 0	UPL species x5 =
5				Column Totals: (A) (B)
6		$\overline{\Box}$	100 mm	Prevalence Index = B/A =
7	-	百		Hydrophytic Vegetation Indicators:
	13	= Total Cov		Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)	10	= Total Co	/er	□ Dominance Test is >50% □ Prevalence Index is =3.0¹
	50		FAC	☐ Morphological Adaptations¹ (Provide supporting
1. Poa pratensis	33	⊠.	FACW	data in Remarks or on a separate sheet)
2. Agrostis stolonifera	,00,000			☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Fragaria virginiana	20	_	FACU	¹ Indicators of hydric soil and wetland hydrology must
4. Solidago riddellii	<u>15</u>	Ш	OBL	Be present, unless disturbed or problematic.
5. Cornus stolonifera	<u>5</u>	П	FACW	
6. Daucus carota	<u>5</u>	\Box	NI	Definitions of Vegetation Strata:
7. Solidago gigantea	3	П	FACW	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Solidago graminifolia	3	П	FACW	at breast height (DBH), regardless of height
9. Anemone canadensis	1		FACW	Sapling/shrub – Woody plants less than 3in. DBH
10. Monarda fistulosa	1		FACU	and greater than 3.28 ft (1 m) tall.
11. Rhamnus cathartica	<u>1</u>		FACU	TWO IS 1994 A 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12. Rudbeckia hirta	1		FACU	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
New York Control of the Control of t	139*	= Total Co		or ozas, and mossy plante isses than ozas it tall
Woody Vine Stratum (Plot size: 30' radius)	3	1317033	1971	Woody vines – All woody vines greater than 3.28 ft in
		П		height
1 2		_		
2			70	
3				Hydrophytic Vegetation
4				Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate shee	0 t \ *Other NO	= Total Co	7	
Tremains. (include prote humber here of on a separate snee	i.) Other NO	rv-dominant ne	irbs iriciade. v	nus riparia (1%) FACW. Fresh (wet) meadow. Frioto 19.
				<i>2</i>
				35
7		¥ in		
				(P
1.07				. N
*				
1		14		# X

Depth	Matrix				Redox Fea									
(inches)	Color (moist)	%	Color (moist)	%%	Type ¹	Loc ²	V-1	Text	ture		Re	emarks	
8	10YR 2/1	100						Silt loa	am					
12	10YR 3/2	67	10YR 6/4		c/p	C	M	Clay lo	oam	000	1000000			
	10YR 2/1	33	7.5YR 4/6	3	c/p	С	M							
2-16	10YR 6/4	100				Acres 11 a		Silt			Loe	ss layer		
-20	2.5Y 7/1	100	10YR 5/8		c/p	С	M	Silt						
		1:10-1:4-1:4-1	-							Λ.				
								137						
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			- SEES - 11					N				1		
	-				-			-			_			-
		-		-	-				W		_			
	·	-	_					500	_		_			-
/pe: C=	Concentration, D=Dep	pletion, RN	/=Reduced	Matrix, C	S=Covered c	or Coated Sar	nd Grains	100	2Loc	ation: PL	=Pore Li	ning, M=M	latrix	_
dric So	il Indicators:							Ir				c Hydric S		
	Histosol (A1)			☐ Po		w Surface (S	8) (LRR R	,		2 cm Muck	(A10) (I	LRR K, L,	MLRA 14	9B)
	Histic Epipedon (A2)				MLRA 149							x (A16) (L		
	Black Histic (A3)					ace (S9) (LRI						or Peat (S3		L, R)
	Hydrogen Sulfide (A4					Mineral (F1) (LRR K, L)		- Commission			(LRR K, L		F-1277
	Stratified Layers (A5) Depleted Below Dark		A11)		amy Gleyed							urface (S8		L)
	Thick Dark Surface (/		(11)	-	epleted Matri: edox Dark Su							(S9) (LRR		
10.75	Sandy Mucky Minera	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -				Surface (F7)						asses (F1: in Soils (F		
	Sandy Gleyed Matrix				dox Depress) (MLRA 1		
	Sandy Redox (S5)	(04)			dox pepies	310113 (1-0)				Mesic Sho			44A, 145	, 1490
	Sandy Redox (SS)									Red Paren	t Materis	al (TF2)		
	Stripped Matrix (S6)) <u></u>	Red Paren Verv Shall			(F12)	
	Stripped Matrix (S6)	RR R, MLI	RA 149B)							Very Shall	ow Dark	Surface (1	ΓF12)	
		RR R, MLI	RA 149B)								ow Dark	Surface (1	ΓF12)	
dicators	Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta	ation and v		ology mu	st be presen	t, unless distr	urbed or pr	roblemat		Very Shall	ow Dark	Surface (1	ΓF12)	
dicators	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta Layer (if observed	ation and v		ology mu	st be presen	t, unless distr	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)		5-11
dicators	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	t, unless disti	urbed or pr	T	ic.	Very Shall	ow Dark Ilain in R	Surface (1	(F12)]
dicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta Layer (if observed	ation and v		ology mu	st be presen	t, unless distr	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
dicators strictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	it, unless distr	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
dicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	it, unless disti	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
dicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	it, unless disti	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
dicators strictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	t, unless disti	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	t, unless dist	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	t, unless dist	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	t, unless dist	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)		1
ndicators estrictive	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v		ology mu	st be presen	t, unless dist	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)]
dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta a Layer (if observed the (inches):	ation and v	vetland hydr		st be presen	t, unless dist	urbed or pr	T	ic.	Very Shall Other (Exp	ow Dark Ilain in R	Surface (1 temarks)	No 🗆	
dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed)	ation and v	vetland hydr		st be presen	t, unless dist	urbed or pr	F	dic.	Very Shall Other (Exp	ow Dark lain in R	Surface (Temarks)	No 🗆	
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dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta a Layer (if observed the (inches):	ation and v	vetland hydr		st be presen	t, unless dist	urbed or pr	F	dic.	Very Shall Other (Exp	ow Dark lain in R	Surface (1 temarks)	No 🗆	
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dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta a Layer (if observed to the content of the con	ation and v	vetland hydr	3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		24 E		dic.	Very Shall Other (Exp	ow Dark lain in R	Surface (Temarks)	No 🗆	2
dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta a Layer (if observed to the content of the con	ation and v	vetland hydr				22		dic.	Very Shall Other (Exp	ow Dark lain in R	Surface (Temarks)	No 🗆	
dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta a Layer (if observed to the content of the con	ation and v	vetland hydr						dic.	Very Shall Other (Exp Soil Prese	ow Dark lain in R	Surface (Temarks)	No 🗆	2
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dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta a Layer (if observed to the content of the con	ation and v	vetland hydr					F	dic.	Very Shall Other (Exp	ow Dark lain in R	Surface (1 demarks) Yes ⊠	No 🗆	
dicators estrictive Type Dept emarks:	Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegeta a Layer (if observed to the content of the con	ation and v	vetland hydr					F	dic.	Very Shall Other (Exp	ow Dark lain in R	Surface (Temarks)	No 🗆	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Sampling Point: 19 Applicant/Owner: State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 2-6% Long: Datum: Soil Map Unit Name: Saylesville silt loam (ShB) Wd NWI classification: none Yes ☐ No ☒ (If no, explain in Remarks) Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 No 🗆 ___, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) Are Vegetation__ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area ⊠Yes Hydrophytic Vegetation Present? ΠNo within a Wetland? Yes ⊠No Hydric Soils Present? ☐Yes ⊠No Wetland Hydrology Present? ⊠No □Yes If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🗌 No 🖂 Depth (inches): _ Saturation Present? Yes 🗌 No 🖂 Depth (inches): Wetland Hydrology Present? Yes 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

VEGETATION – Use scientific names of plants.				Sampling Point: 19
Tree Stratum (Plat size: 20) radius)	Absolute	Dominant	Indicator	Daminenes Test weeksteet
Tree Stratum (Plot size: 30' radius) 1. Prunus serotina	% Cover 3	Species?	Status FACU	Dominance Test worksheet:
2	2		PACO	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
	· · · · ·		_	ENGLISH STREET AND STREET STRE
3	-	H	_	Total Number of Dominant Species Across All Strata: 4 (B)
4		브	-	The Land Control of the Control of t
5		므		Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 75 (A/B)
7	-			Prevalence Index worksheet:
9	<u>3</u>	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1. Caronus amoumum	20	\boxtimes	FACW	FACW species x 2 =
2. Cornus racemosa	10	\boxtimes	FACW	FAC species x 3 =
3. Rhamnus cathartica	10		FACU	FACU species x 4 =
4. Cornus stolonifera	<u>5</u>		FACW	UPL species x 5 =
5. Lonicera X bella	3		NI	Column Totals: (A) (B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
6 Y	48	= Total Cove	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				Prevalence Index is =3.01
1. Poa pratensis	80	\boxtimes	FAC	☐ Morphological Adaptations¹ (Provide supporting
2. Melilotus abla	25		FACU	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Cornus racemosa	10		FACW	- Problematic Hydrophytic Vegetation (Explain)
	10		FACU	¹ Indicators of hydric soil and wetland hydrology must
4. Monarda fistulosa				Be present, unless disturbed or problematic.
5. Solidago altissima	<u>10</u>		FACU	Definitions of Vegetation Strata:
6. Agrimonia gryposepela	2		FACU	SCHOOLSENSINGS - PE CHAPTER SANDSON CONTROLES.
7. Agrostis stolonifera	2		FACW	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Anemone cylindrica	2		NI	at breast height (DBH), regardless of height
9. Aster novae-angliae	2		FACW	Sapling/shrub – Woody plants less than 3in. DBH
10. Parthenocissus quinquefoliia	2	, <u>—</u>	FACU	and greater than 3.28 ft (1 m) tall.
11. Rudbeckia hirta	2		FACU	Herb - All herbaceous (non-woody) plants, regardless
12	1		-	of size, and woody plants less than 3.28 ft tall.
	147	= Total Cove	er	Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1	·			. 1000,000
2		\Box		
3				Hydrophytic
4			-	Vegetation
* · · · · · · · · · · · · · · · · · · ·	<u>o</u>	= Total Cove	er	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet	.) Old field wi	th scattered shi	rubs. Photo 2	20.
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s ^				
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2/				

Depth	Matrix				Redox Fe								
inches)	Color (moist)	%	Colo	r (moist)	%	Type ¹	Loc ²	_	Texture		F	Remarks	
9	10YR 3/1	100	*					Silt loam					
13.5	10YR 3/2	100					-	Clay loar					
3.5-18	10YR 5/4	100	-					Silt					
3-20	10YR 5/4	100	7.5YR 4	1/6	c/d		M	Silt			- 1		
J-20	1011374	100	7.511	,,0			ivi	SIIL					
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	Concentration, D=Dep	oletion, RN	/I=Reduce	d Matrix,	CS=Covered	or Coated Sa	nd Grains			PL=Pore			
	il Indicators: Histosol (A1)				Dobardina D-	low Curtons (C	0\ /I BB B			r Problema			400
	Histic Epipedon (A2)				MLRA 14	low Surface (S 49B)	o) (LKK K,			Muck (A10) Prairie Red			
	Black Histic (A3)					rface (S9) (LR	R R, MLRA			Mucky Peat	집안 없는 사람들 다시 하지 않는 하지?		TO THE REAL PROPERTY.
	Hydrogen Sulfide (A4					y Mineral (F1)				Surface (S7		- Dan San San San San San San San San San S	
	Stratified Layers (A5)		1000			d Matrix (F2)				alue Below			K, L)
	Depleted Below Dark Thick Dark Surface (A		A11)		Depleted Mat					ark Surface	S. Carlotte & Commission		
77	Sandy Mucky Minera	100 mm (100 mm)			Redox Dark S	k Surface (F6)				langanese			
	Sandy Gleyed Matrix				Redox Depre					ont Floodpl Spodic (TA			
											O) (IVILIVA	1444, 14	
		(34)			redox Depre	ssions (F8)		- 7					, 143L
	Sandy Redox (S5) Stripped Matrix (S6)	· Consider			Redox Depre	ssions (F8)		1	Red F	arent Mate Shallow Dar	rial (TF2) k Surface	2	, 143L
	Sandy Redox (S5)	· Consider	RA 149B)		Redox Depre	ssions (F8)		1	Red F	arent Mate	rial (TF2) k Surface	2	1401
	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI	RR R, MLI		N ₁	1		urbed or pr		Red F	arent Mate Shallow Dar	rial (TF2) k Surface	2	140.
□ □ ndicators	Sandy Redox (S5) Stripped Matrix (S6)	RR R, MLI		N ₁	1		urbed or pr		Red F	arent Mate Shallow Dar	rial (TF2) k Surface	2	140.
dicators	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface	(TF12)	
dicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
dicators strictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	3
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	3
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
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ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	
ndicators estrictive Type Dept	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete e Layer (if observed :: th (inches):	RR R, MLI		N ₁	1		urbed or pr	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface Remarks)	(TF12)	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: State: WI Sampling Point: 20 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): low terrace (floodplain) Local relief (concave, convex, none): none Slope (%): nearly level Lat: Long: Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: S3/E1K Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 No 🗆 _, or Hydrology _ Are Vegetation _, Soil_ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No **⊠Yes** within a Wetland? Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 11 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ○ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 Depth (inches): Water Table Present? Yes I \boxtimes Depth (inches): No Saturation Present? Yes X No 🗆 Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes 🖂 No \square (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soils saturated from surface to bottom of pit (20"). Professional judgement used in determination of indicator A3, Saturation. Assumption made that the water table is present below 20". Sample site is located in a mapped floodway.

EGETATION – Use scientific names of plants.	0.28.00			Sampling Point: 20
ree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	-	П		Number of Dominant Species
				That are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
	14 (Species Across All Strata: 2 (B)
•				Percent of Dominant Species
			7	That Are OBL, FACW, or FAC: 100 (A/B)
				Prevalence Index worksheet:
	<u>0</u>	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
. Salix exigua	50		OBL	FACW species x 2 =
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-			FAC species x 3 =
·	-		2,	FACU species x 4 =
·			72 <u></u> 57	UPL species x 5 =
				Column Totals: (A) (B
	2000			Prevalence Index = B/A =
•				Hydrophytic Vegetation Indicators:
	50	= Total Cove	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0¹
. Phalaris arundinacea	100		FACW	☐ Morphological Adaptations¹ (Provide supporting
. Sagittaria latifolia	2	\Box	OBL	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
8. Lemna minor	1		OBL	
i		П		¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
	-			
3				Definitions of Vegetation Strata:
·	-			Tree - Woody plants 3in. (7.6 cm) or more in diamete
·	-		 -	at breast height (DBH), regardless of height
0				Sapling/shrub – Woody plants less than 3in. DBH
0				and greater than 3.28 ft (1 m) tall.
1	22		7	Herb – All herbaceous (non-woody) plants, regardles:
2	-	П	*****	of size, and woody plants less than 3.28 ft tall.
	103	= Total Cov	er	The State of the Control of the State of the
Noody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in height
·	-			lucian.
2		1		

Vegetation

= Total Cover Remarks: (include photo number here or on a separate sheet.) Fresh (wet) meadow and willow thicket. Photo 21.

0

Yes 🛛

No 🗆

Profile De	escription: (Describe	Charle coolse cons.			THE PROPERTY OF THE PARTY OF TH		AND CAR I STORES	baence	or maioators.)		
Depth	Matrix			F	Redox Feat		1000000				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	 V:======	Texture	Re	marks
0-6	10YR 2/2	100	9					Muck	777		
6-19	N 2.5/0	100	7.5YR 4/6		c/p		PL	Muck			
			_				-	1			
										Chin die	
			-	-							
								-			
		-	-					-			
											
		- X									
	Concentration, D=De	epletion, RM	1=Reduced N	Matrix, CS=	Covered o	r Coated San	d Grains	1077	² Location: PL=Pore	Lining, M=Ma	ntrix
	oil Indicators:						8 TO 125 TANK CAN		ndicators for Problema		
	Histosol (A1) Histic Epipedon (A2					w Surface (S8) (LRR R,		2 cm Muck (A10)		
	Black Histic (A3)	!			MLRA 149	ace (S9) (LRR	D MI DA	140P)	☐ Coast Prairie Red ☐ 5 cm Mucky Peat		
	Hydrogen Sulfide (A	4)				Mineral (F1) (L		1490)	Dark Surface (S7		(LLK K, L, K)
16	Stratified Layers (A5					Matrix (F2)	N. 77. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7		☐ Polyvalue Below	할이 가게 반대를 하고 있는 그를 걸을 하는 것이다.	(LRR K, L)
	Depleted Below Dar		A11)		leted Matrix				☐ Thin Dark Surface	9 (S9) (LRR I	K, L)
122.51	Thick Dark Surface	10 to			ox Dark Su			365 - 2	☐ Iron-Manganese		
	Sandy Mucky Miner					Surface (F7)			☐ Piedmont Floodp		
	Sandy Gleyed Matri: Sandy Redox (S5)	K (54)		☐ Red	ox Depress	sions (F8)			☐ Mesic Spodic (TA☐ Red Parent Mate		I4A, 145, 149B)
100000	Stripped Matrix (S6)								☐ Very Shallow Dar		F12)
	Dark Surface (S7) (I	RR R, MLF	RA 149B)						Other (Explain in		8001777 8 9
3	272 S S S	1 4 4	B 255 5								
	of Hydrophytic vege		vetland hydro	ology must	be presen	t, unless distu	rbed or pro	oblemati	ic.		
Type	e Layer (if observe	a):									
45,777	th (inches):							- 1	lydric Soil Present?	Yes 🛛	No 🗆
Remarks:	01 (M01100).					,					
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Sampling Date: 08/30/2011 Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Applicant/Owner: Sampling Point: 21 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): toe of hillslope Local relief (concave, convex, none): slightly convex Slope (%): 1-4% Lat: Long: Datum: NWI classification: T3/E2K Soil Map Unit Name: Lamartine silt loam (LmB) Spd Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation____, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area ⊠No Hydrophytic Vegetation Present? **TYes** ⊠No within a Wetland? Yes Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ☐Yes **⊠No** If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Drainage Patterns (B10) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🗌 No 🖂 Depth (inches): _ Saturation Present? Yes 🗌 No 🖂 Depth (inches): Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

VEGETATION	- Use scientific names of plants.
VEGETATION	- Use scientific names of biants.

T Stt (Di-t 201 - 1)	Absolute	Dominant	Indicator	5
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1. Juglans nigra	<u>75</u>	×	NI	Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2		므	_	That are OBL, FACW, or FAC: 4 (A)
3	3 11 (10 10	므		Total Number of Dominant
4				Species Across All Strata: 8 (B)
5				Percent of Dominant Species
6		П		That Are OBL, FACW, or FAC: 50 (A/B)
7				Prevalence Index worksheet:
E	75	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)			7	OBL species <u>0</u> x1 = <u>0</u>
Rubus occidentalis	15	\boxtimes	NI	
AND THE PROPERTY OF THE PARTY O	10		NI	FACW species <u>42</u> x 2 = <u>84</u>
2. Juglans nigra	-	V <u>22</u>		FAC species <u>68</u> x 3 = <u>204</u>
3. Lonicera X bella	<u>10</u>	. 🛚	<u>NI</u>	FACU species $\underline{0} \times 4 = \underline{0}$
4. Fraxinus pennsylvancia	4		FACW	UPL species <u>115</u> x 5 = <u>575</u>
5			-	Column Totals: <u>225</u> (A) <u>863</u> (B)
6				Prevalence Index = B/A = 3.8
7			3/5	Hydrophytic Vegetation Indicators:
v v	39	= Total Cov	er er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.01
Agrostis stolonifera	25		FACW	☐ Morphological Adaptations¹ (Provide supporting
2. Poa pratensis	25	\boxtimes	FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
3. Carex blanda	20	\boxtimes	FAC	Troblematic riyurophytic vegetation (Explain)
ACCUPANT CONTRACTOR CO	10		FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Geum canadense	450		10.6000	Be present, unless disturbed or problematic.
5. Solidago gigantea	<u>6</u>		FACW	Definitions of Vegetation Strata:
6. Cryptotaenia canadensis?	<u>5</u>		FAC	Definitions of Vegetation Strata.
7. Lactuca seriola	<u>5</u>	. 🗖	FAC	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Plantago major	3	. 🗆	FAC	at breast height (DBH), regardless of height
9. Zanthoxylum americanum	3		NI	Sapling/shrub – Woody plants less than 3in. DBH
10. Aster lateriflorus	2		FACW	and greater than 3.28 ft (1 m) tall.
11. Daucus carota	2		NI	
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1	106	= Total Cov	/er	, plants in the state of the st
Woody Vine Stratum (Plot size: 30' radius)			700	Woody vines – All woody vines greater than 3.28 ft in
	5		FACW	height
1. <u>Vitis riparia</u>	×		LISON	
2				
3	-	브		Hydrophytic
4		Ц	****	Vegetation Present? Yes □ No ⊠
	5	= Total Cov		
Remarks: (include photo number here or on a separate shee	t.) Hardwoods	s with scattered	stands of fre	sh (wet) meadow. Photo 22.
[1				
# # # # # # # # # # # # # # # # # # #			R	
2 0				
"				
3 ?				
			37 /4	

Color (moist) Color (moist) Type Loc Texture Rem	Depth	Ma	trix		Redox Fe	eatures					
N 1/0		-		Color (mo			Loc2	т.	exture	Rei	marks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Clay loam								·	OATO -	110	TO TO
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: Indicators for Problematic Hydric So Indicators for Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sets ricitive Layer (if observed): Type:	7.1 (A)										
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Coation: PL=Pore Lining, M=Matrydric Soil Indicators: Indicators for Problematic Hydric Soil Prairie Redox (A16) Polyvalue Below Surface (S8) (LRR R, Coast Prairie Redox (A16) (LLF Black Histor (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) S cm Mucky Peat or Peat (S3) (LBR K, L) Dark Surface (A14) Darmy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (A12) Polyvalue Below Surface (S9) (LRR K, L) Polyv		***************************************		7.575.470							
Tydric Soil Indicators: Histosol (A1)	7-24	10YR 4/1	100	7.5YR 4/6	с/р		M	Clay			
Tydric Soil Indicators: Histosol (A1)											
Indicators for Problematic Hydric So Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, M Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LLF Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L) Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Thin Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF Dark Surface (S7) (LRR R, MLRA 149B) Mesic Spodic (TA6) (MLRA 144 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF Other (Explain in Remarks) Mesic Spodic (TA6) (MLRA 144 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF Other (Explain in Remarks) Mesic Spodic (TA6) (MLRA 144 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF Other (Explain in Remarks) Remarks:				4 4		-/					
Soil Indicators:		· <u>G</u>					<u>- 1160-2015</u>	·			
Hydric Soil Indicators: Histosol (A1)	and the second							7			
Soil Indicators:		2									
Soil Indicators:											4
Tydric Soil Indicators: Histosol (A1)	-										
Tydric Soil Indicators: Histosol (A1)	9 C.	- 2000 - 140 ISS		77 18-18 - 14	200						
Soil Indicators:				-				.07			
Sydric Soil Indicators:											
Histosol (A1)	Type: C=0	Concentration, D	=Depletion, RI	M=Reduced Ma	trix, CS=Covered	or Coated Sai	nd Grains				
Histic Epipedon (A2)				121	nawanantaasa a watuna y						
Black Histic (A3)			(4.0)				8) (LRR R,				
Hydrogen Sulfide (A4)			DOMEST (***)	-		100000000000000000000000000000000000000	D D MI DA	7510			
Stratified Layers (A5)	2777								하는 게임하게 살아가는 맛이 아니어 모양하게 되어 있다면	10 1111의 - 10 11 12 11 12 12 12 12 12 12 12 12 12 12	(LLK K, L, K)
□ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR K □ Thick Dark Surface (A12) □ Redox Dark Surface (F6) □ Iron-Manganese Masses (F12) □ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) □ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144 □ Sandy Redox (S5) □ Redox Depressions (F8) □ Very Shallow Dark Surface (TF □ Very Shallow Dark Surface (TF □ Dark Surface (S7) (LRR R, MLRA 149B) □ Other (Explain in Remarks) □ Other (Explain in Remarks) □ Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): □ Type: □ □ Depth (inches): □ □ Hydric Soil Present? Yes ☑ Remarks:			5.00 MODES (1986)				, -/				(LRR K, L)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks:		Depleted Below	Dark Surface ((A11)		THE STREET STATE OF THE STREET					
Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF Other (Explain in Remarks) (Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes Remarks:											
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks:											
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks:				72. E	☐ Redox Depre	essions (F8)		<u>_</u>			14A, 145, 149B
Dark Surface (S7) (LRR R, MLRA 149B) Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks: Type: Depth (inches): Dep			100				1	<u> </u>			E12)
Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present? Yes Yes Remarks:				RA 149B)							1-7
Restrictive Layer (if observed): Type: Depth (inches): Remarks:											
Type: Hydric Soil Present? Yes 🖂 Remarks:		of Hydrophytic v									
Depth (inches):Remarks:				wetland hydrolo	gy must be pres	ent, unless dist	urbed or pr	oblematic.			
Remarks:		Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr			<u> </u>	1. 2-8
	Type:	Layer (if obse		wetland hydrolo	gy must be pres	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be pres	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydroid	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse		wetland hydrolo	gy must be prese	ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆
	Type: Depth	Layer (if obse	rved):			ent, unless dist	urbed or pr		ic Soil Present?	Yes ⊠	No 🗆

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: Sampling Point: 22 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): toe of hillslope-terrace Local relief (concave, convex, none): slightly convex to none Slope (%): 1-4% Lat: _ Long: Soil Map Unit Name: Lamartine silt loam (LmB) Spd NWI classification: T3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No X (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗌 , or Hydrology __ Are VegetationX, Soil naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 11 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Problematic vegetation in sample area - Rhamnus cathartica (FACU) dominated wetland. (Morphological Adaptations worksheet and Problematic Hydrophytic Vegetation worksheet attached.) HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) \boxtimes Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) ☐ Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) \boxtimes Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) ☐ FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Depth (inches): Water Table Present? Yes 🛛 Depth (inches): 20 No \square Saturation Present? Yes 🛛 No 🗌 Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes X No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Other indicators of hydrology include morphological adaptations, 100% of Rhamnus cathartica contain shallow roots and/or buttressing.

VEG	ETAT	ION -	Use sci	entific n	ames of	plants
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	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1. Juglans nigra	20	×	<u>NI</u>	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
2. Populus tremuloides	20	⊠	FAC	That are OBL, FACW, or FAC: 3 (A)
3	_		-	Total Number of Dominant
4				Species Across All Strata: <u>6</u> (B)
5		Д		Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 50 (A/B)
7			-	Prevalence Index worksheet:
i i	40	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species <u>0</u> x 1 = <u>0</u>
1. Rhamnus cathartica	50	\boxtimes	FACU	FACW species 42 x 2 = 84
2. Lonicera mackii	5		NI	FAC species 27 x 3 = 81
3. Fraxinus pennsylvanica	2		FACW	FACU species 101 x 4 = 404
4				UPL species 35 x 5 = 175
5				Annual Company of the
6				Column Totals: <u>205</u> (A) <u>744</u> (B) Prevalence Index = B/A = 3.6
7.				Hydrophytic Vegetation Indicators:
1.	<u>57</u>			Rapid Test for Hydrophytic Vegetation
I to the Country (District of States)	51	= Total Cov	er	Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	50	N/A	FACIL	☐ Prevalence Index is =3.0¹ ☐ Morphological Adaptations¹ (Provide supporting
1. Rhamnus cathartica	50	×	FACU	data in Remarks or on a separate sheet)
2. Pilea pumula	20		FACW	□ Problematic Hydrophytic Vegetation¹ (Explain)
3. Lonicera mackii	<u>10</u>		NI	¹ Indicators of hydric soil and wetland hydrology must
4. Bidens vulgata	<u>5</u>		FACW	Be present, unless disturbed or problematic.
5. Geum canadense	<u>5</u>	П	FAC	BOTONILANI
6. Polygonum virginianum	2		FAC	Definitions of Vegetation Strata:
7. Parthenocissus quinquefolia	1		FACU	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8			V	at breast height (DBH), regardless of height
9				Sapling/shrub – Woody plants less than 3in. DBH
10				and greater than 3.28 ft (1 m) tall.
11				TOTAL OF THE PRODUCT OF T
12				Herb – All herbaceous (non-woody) plants, regardless
	93	= Total Cov		of size, and woody plants less than 3.28 ft tall.
Monda Vina Stratum (Plat sinas 201 radius)	30	- Total Cov	rei	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)	46	M	EACIA	height
1. Vitis riparia	<u>15</u>	×	FACW	
2		=		
3			Y	Hydrophytic
4	1-11-11		_	Vegetation Present? Yes ⊠ No □
	<u>15</u>	= Total Cov		
Remarks: (include photo number here or on a separate shee adaptations (shallow roots and/or buttressing). See the follow				
adaptations (shallow roots and/or buttlessing). See the follow	ang worphole	gical Adaptatic	nis and Frobi	ematic Hydrophytic Vegetation Worksheets. Photo 23.
5				5
				* *
				a g
V.				*
ä				a = 2
2 8				*
4 g y				

Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	DRKSHEET Sampling Point: 22 Dominance Test worksheet:
1. Juglans nigra	20		NI	Number of Dominant Species
2. Populus tremuloides	20	⋈	FAC	That are OBL, FACW, or FAC: 5 (A)
3		\Box		Total Number of Dominant
4				Species Across All Strata: 6 (B)
5		П		Percent of Dominant Species
6.		П		That Are OBL, FACW, or FAC: 83 (A/B)
7			-	Prevalence Index worksheet:
	40	= Total Cov	er —	370 SE 2008 SEE SEE
Spelling/Charle Stratum (Plateine 200 and inc)	 	- Total Cov	ei -	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)		-		OBL species x 1 =
Rhamnus cathartica	<u>50</u>		FAC	FACW species x 2 =
2. Lonicera mackii	<u>5</u>		NI	FAC species x 3 =
3. Fraxinus pennsylvanica	2	Д	FACW	FACU species x 4 =
4				UPL species x 5 =
5	-		-	Column Totals: (A) (B)
6		П		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	57	= Total Cov	or —	Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)	-	- Total Cov	GI .	□ Dominance Test is >50% □ Prevalence Index is =3.0¹
	50	. 121	EAC	☐ Morphological Adaptations¹ (Provide supporting
1. Rhamnus cathartica	<u>50</u>		FAC	data in Remarks or on a separate sheet)
2. Pilea pumula	20		FACW	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Lonicera mackii	<u>10</u>		NI	¹ Indicators of hydric soil and wetland hydrology must
4. Bidens vulgata	<u>5</u>		FACW	Be present, unless disturbed or problematic.
5. Geum canadense	<u>5</u>		FAC	
6. Polygonum virginianum	2		FAC	Definitions of Vegetation Strata:
7. Parthenocissus quinquefolia	1		FACU	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8		П		at breast height (DBH), regardless of height
9			1000-1000 1000-1000	
10.		-	-	Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
		H		and greater train 5.26 it (1 iii) tail.
11			-	Herb - All herbaceous (non-woody) plants, regardless
12			-	of size, and woody plants less than 3.28 ft tall.
	93	= Total Cov	er	Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1. Vitis riparia	15	\boxtimes	FACW	To the second se
2				
3.	10000			
4				Hydrophytic Vegetation
*·	15		1	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate shee		= Total Cov		cathartica chow morphological adaptations (challow roots
and buttressing). Indicators of hydrology and soils are prese			or Knaminus	cathartica snow morphological adaptations (snallow roots
i di				
		a a		
*				

EGETATION – Use scientific names of plants. PROB					Sampling Point: 22
ree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
. Juglans nigra .	20	\boxtimes	NI	Number of Dominant Species	
. Populus tremuloides	20	\boxtimes	FAC	That are OBL, FACW, or FAC:	<u>3</u> (A)
			-	Total Number of Dominant	
	2			Species Across All Strata:	<u>4</u> (B)
· <u></u>				Percent of Dominant Species	£
				That Are OBL, FACW, or FAC:	<u>75</u> (A/B)
·				Prevalence Index worksheet:	
	40	= Total Cov	rer	Total % Cover of:	Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)	7	101011 001		OBL species x 1 =	
	50		FACU	TO THE PROPERTY OF THE PARTY OF	
. Rhamnus cathartica	-			FACW species x 2 =	
. Lonicera mackii	5	. 🗀	NI	FAC species x 3 =	
s. Fraxinus pennsylvanica	2	· 📙	FACW	FACU species x 4 =	
:			-	UPL species x 5 =	· —
i	· ·		· — ·	Column Totals: (A)) (B
S			-	Prevalence Index = B/A	
· <u> </u>				Hydrophytic Vegetation Indicato Rapid Test for Hydrophytic Veg	
	57	= Total Cov	er er	☑ Dominance Test is >50%	getation
Herb Stratum (Plot size: 5' radius)				Prevalence Index is =3.01	
. Rhamnus cathartica	<u>50</u>		FACU '	☐ Morphological Adaptations¹ (Pr data in Remarks or on a se	
2. Pilea pumula	20		FACW	☐ Problematic Hydrophytic Veget	
3. Lonicera mackii	<u>10</u>		NI		
I. Bidens vulgata	5		FACW	¹ Indicators of hydric soil and wetla Be present, unless disturbed or pro	
5. Geum canadense	<u>5</u>		FAC	be present, unless disturbed of pre	blematic.
B. Polygonum virginianum	2		FAC	Definitions of Vegetation Strata:	
and the real of the common was a considered account of the common of the common of the common of the constant of the common of the constant of	1		FACU		
7. <u>Parthenocissus quinquefolia</u>	-	_	1700	Tree Woody plants 3in. (7.6 cm) at breast height (DBH), regardless	
·—		H		and the second s	
)				Sapling/shrub – Woody plants les	s than 3in. DBH
0	1			and greater than 3.28 ft (1 m) tall.	
1				Herb - All herbaceous (non-wood)) plants, regardles
2	-			of size, and woody plants less than	3.28 ft tall.
	93	= Total Cov	er er	Woody vines - All woody vines gr	eater than 3.28 ft in
Noody Vine Stratum (Plot size: 30' radius)				height	cater triair 5.25 it ii
. <u>Vitis riparia</u>	<u>15</u>	\boxtimes	FACW	1339/60407	
			-	i ilista	
8			-	Hydrophytic	
I		П		Vegetation	
	<u>15</u>	= Total Cov	/er	Present? Yes ⊠ N	lo 🗆
Remarks: (include photo number here or on a separate she	100 C			a is listed as a FACU species that con	nmonly dominates
fisturbed wetlands. Indicators of hydrology and soils are pr	esent.				
				15	

COIL		

Depth	Matrix				Redox Featu	ires					
(inches)	Color (moist)	%	Color	(moist)	%	Type¹	Loc ²		Texture	R	emarks
0-13	N 1/0	100		in the second se				Silty o	clay loam		
13-22	10YR 4/1	80	10YR 5/6		c/p	С	M	Clay			
	10YR 5/1	20	10GY 5/1		c/p	D	M				
									11.77	-	
	9 , 		7					-			
				46						-	
		-			-						
	ψ 1							-		-	
		-									
								_			
			0.					-		-	
		-	-	-			V				7597-1-0 - s
								_			
¹Type: C=	Concentration, D=De	nletion RA	1=Reduced	Matrix C	2S=Covered or	Coated Sa	d Graine	_	² Location: PL=F	lore Lining M-N	Antriv
	il Indicators:	pietion, rak	/i-Reduced	iviatrix, C	23-Covered or	Coated Sai	id Grains		Indicators for Probl		
	Histosol (A1)			□ P	olyvalue Belov	Surface (S	8) (LRR R.			110) (LRR K, L,	
	Histic Epipedon (A2)				MLRA 149			4	☐ Coast Prairie	Redox (A16) (L	
77	Black Histic (A3)			□ T	hin Dark Surfa	ce (S9) (LR	R, MLRA	149B)	☐ 5 cm Mucky		3) (LLR K, L, R)
	Hydrogen Sulfide (A				oamy Mucky N		LRR K, L)			(S7) (LRR K, L	
	Stratified Layers (A5) Depleted Below Dark		A11)		oamy Gleyed Nepleted Matrix					low Surface (S8	
	Thick Dark Surface ((11)		epieted iviatrix ledox Dark Sur					irface (S9) (LRF	2) (LRR K, L, R)
	Sandy Mucky Minera			A	epleted Dark S						19) (MLRA 149B
	Sandy Gleyed Matrix				edox Depressi						144A, 145, 149B)
	Sandy Redox (S5)				1000 1000 1000 1000 1000 1000 1000 100					Naterial (TF2)	
	Stripped Matrix (S6)									Dark Surface (TF12)
	Dark Surface (S7) (L	RR R, MLI	RA 149B)						☐ Other (Expla	in in Remarks)	
3Indicators	of Hydrophytic veget	ation and v	vetland hydi	rology m	ust be present	unless dist	irhed or pro	hloma	tic.		
	Layer (if observed						TIDEG OF DIC	Diema			
Type	and the second s	1):			1	amood aloc	arbed of pro	Diema		0.	
	i	1):				dilloop dist	arbed of pre		Hydric Soil Present	? Yes⊠	No 🗆
Dept		1):			1	4,11000 4100	arbed or pro			? Yes⊠	No 🗆
Dept	i)):					arbed or pro			? Yes⊠	No 🗆
Dept	i	1):	3		7		arbed or pro			? Yes ⊠	No 🗆
Dept	i	1):		1	7		arbed of pro			? Yes ⊠	No 🗆
Dept	i);	1	34	7		arbed or pro			? Yes ⊠	No 🗆
Dept	i	1):	7		*		arbed or pro			? Yes⊠	No 🗆
Dept	i)):	9		7		arbed or pro			? Yes⊠	No 🗆
Dept	i	():			7		noed of pro			? Yes⊠	No 🗆
Dept	i	():			*		arbed of pro			? Yes⊠	No 🗆
Dept	i	(): 	3		*		arbed of pro	ı	Hydric Soil Present		No 🗆
Dept	i	1):		31			arbed of pro	ı	Hydric Soil Present		No 🗆
Dept	i	1):					arbed of pro	ı			No 🗆
Dept	i	():						1	Hydric Soil Present		
Dept	i	(): 4						1	Hydric Soil Present		
Dept	i							1	Hydric Soil Present		
Dept	i	(): 1	3						Hydric Soil Present		
Dept	i								Hydric Soil Present		
Dept	i								Hydric Soil Present		
Dept	i								Hydric Soil Present		
Dept	i								Hydric Soil Present		
Dept	i								Hydric Soil Present		
Dept	i								Hydric Soil Present		
3375	i								Hydric Soil Present		

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: State: WI Sampling Point: 23 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 6-12%, eroded Long: Datum: Soil Map Unit Name: Hochheim Ioam (HmC2) Wd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation ___, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 __, Soil____, or Hydrology _ Are Vegetation_ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? ☐Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days, HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🗌 No 🛛 Depth (inches): _ Saturation Present? Yes 🗌 No 🗵 Depth (inches): _ Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

Tree Stratum (Plot size: 30' radius)	Absolute	Dominant Species 2	Indicator	Dominance Test worksheet:
1	% Cover	Species? □	Status	Number of Dominant Species
2				That are OBL, FACW, or FAC: 0 (A)
3			-	Total Number of Dominant
4				Species Across All Strata: 2 (B)
5.	-			Percent of Dominant Species
3				That Are OBL, FACW, or FAC: 0 (A/B)
		'. <u>-</u>		Prevalence Index worksheet:
\$ 	<u>0</u>	= Total Cov	or —	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)		- Total Cov	GI	
				OBL species x1 =
			-	FACW species x 2 =
t a s		6 E	-	FAC species x 3 =
•—	·		-	FACU species x 4 =
<u>-</u>			-	UPL species x 5 =
<u> </u>				Column Totals: (A) (E
	-		2	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
\$ 	0			☐ Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)	<u>0</u>	= Total Cov	er	Dominance Test is >50%
. Dactylis glomerata	33		FACU	☐ Prevalence Index is =3.0¹ ☐ Morphological Adaptations¹ (Provide supporting
	<u>25</u>	⊠	NI	data in Remarks or on a separate sheet)
2. Bromus inermis	<u>15</u>		FACW	☐ Problematic Hydrophytic Vegetation¹ (Explain)
B. Cornus racemosa			5-4-24-30-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	1 Indicators of hydric soil and wetland hydrology must
I. Setaria glauca	<u>12</u>	_	FAC	Be present, unless disturbed or problematic.
. Festuca elatior	<u>10</u>	므	FACU	Definitions of Vegetation Strata:
S. Daucus carota	3		NI	Definitions of Vegetation Strata.
. Phleum pratense	3	브	FACU	Tree – Woody plants 3in. (7.6 cm) or more in diameter
. Agropyron repens	2	Щ.	FACU	at breast height (DBH), regardless of height
·		П	(Sapling/shrub – Woody plants less than 3in. DBH
0	-	므	1	and greater than 3.28 ft (1 m) tall.
1	2			Herb - All herbaceous (non-woody) plants, regardles
2	W 2000	. П		of size, and woody plants less than 3.28 ft tall.
	103	= Total Cov	er	Woody vines – All woody vines greater than 3.28 ft i
Voody Vine Stratum (Plot size: 30' radius)				height
* <u></u>		П		71 11 12 13
•	-			
· <u> </u>		- п		Hydrophytic
	- Ann 20		-	Vegetation
Remarks: (include photo number here or on a separate	<u>0</u>	= Total Cov	er	Present? Yes ☐ No ☒

Depth	Matrix	1			Redox Fea	tures							
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	→ P	Texture			Remarks	
9	10YR 3/2	100	90101	(moiot)				Sandy	silt loam			Nomarks	
	10111 0/2							Januy	om idaill		D-6:1	ele del 800	
	-										Refusal -	glacial till mate	erial
	20 <u>4</u>												
						1 50% 1 50%	0.0	W - 2-25-	77-				0.
			NATIONAL PROPERTY.										- 20
			1 14			-	-	-					- 10
							·——					1000000	-
				-		-		7.G					
-								-					
							<u> </u>						
			- 0					0.7					
			S //					M. Dellette					
	Concentration, D=Dep	letion, RM=	Reduced	Matrix, C	S=Covered	or Coated Sa	nd Grains				re Lining, I		
	il Indicators:								dicators fo				
	Histosol (A1) Histic Epipedon (A2)			☐ P	olyvalue Belo MLRA 14	ow Surface (\$	88) (LRR R					C, L, MLRA 14	
	Black Histic (A3)			□т		эь) face (S9) (LR	DD MID	140P)				6) (LLR K, L, F t (S3) (LLR K.	55 7 0.
	Hydrogen Sulfide (A4))				Mineral (F1)			- 10 Table 1		S7) (LRR		L, K)
7111111	Stratified Layers (A5)				oamy Gleyed		(LINKIN, L	9				(S8) (LRR K,	L)
	Depleted Below Dark	Surface (A1	11)		epleted Matr							LRR K, L)	7/
	Thick Dark Surface (A				edox Dark S				1 mm 2 2		27 10 10 10 10 10 10 10 10 10 10 10 10 10	(F12) (LRR K	, L, R
	Sandy Mucky Mineral					Surface (F7)		☐ Piedn	ont Floo	dplain Soil	ls (F19) (MLR	A 149
	Sandy Gleyed Matrix	(S4)	- 4	□ R	edox Depres	sions (F8)			☐ Mesic	Spodic	TA6) (ML	RA 144A, 145	, 149E
100	Sandy Daday (SE)												
	Sandy Redox (S5)			9							iterial (TF2		
	Stripped Matrix (S6)	D D MI D	140B)	9					☐ Very	Shallow [Dark Surfa	ce (TF12)	
		RR R, MLRA	A 149B)	9					☐ Very	Shallow [ce (TF12)	
	Stripped Matrix (S6) Dark Surface (S7) (LF			drology m	ust be prese	nt. unless dis	turbed or p	roblemati	☐ Very ☐ Other	Shallow [Dark Surfa	ce (TF12)	
ndicators	Stripped Matrix (S6)	tion and we		drology m	ust be prese	nt, unless dis	turbed or p	roblemati	☐ Very ☐ Other	Shallow [Dark Surfa	ce (TF12)	
ndicators	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta	tion and we		drology m	ust be preser	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	1
ndicators estrictive	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed)	tion and we		drology m	ust be preser	nt, unless dis	turbed or p		☐ Very ☐ Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) c: Glacial till material	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	l
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	Î
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	ĺ
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) c: Glacial till material th (inches): 9 Upland soils.	tion and we		drology m	ust be presei	nt, unless dis	turbed or p		Uery Other	Shallow [(Explain	Dark Surfa in Remark	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9	tion and we		8				Н	☐ Very☐ Other	Shallow [(Explain	Oark Surfa	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) c: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyc	a l				Н	☐ Very☐ Other	Shallow [(Explain	Oark Surfa	ce (TF12)	1
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) s: Glacial till material th (inches): 9 Upland soils.	tion and we		a l				Н	Uery Other	Shallow [(Explain	Oark Surfa	ce (TF12)	I
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyc	a l				Н	☐ Very☐ Other	Shallow [(Explain	Oark Surfa	ce (TF12)	
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) s: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyc	8 V				Н	□ Very □ Other c. ydric Soil F	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd			t a		Н	□ Very □ Other c. ydric Soil F	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd	8 V		t a		Н	□ Very □ Other c. ydric Soil F	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) s: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd					Н	□ Very □ Other c. ydric Soil F	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) e: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd					Н	□ Very □ Other c. ydric Soil F	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) s: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd					Н	□ Very □ Other c. ydric Soil F	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) s: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd					H	Uery Other	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) c: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd					H	Uery Other	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
ndicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) c: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd					H	Uery Other	Shallow [(Explain	Oark Surfa	ce (TF12)	ı
dicators estrictive Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed) c: Glacial till material th (inches): 9 Upland soils.	tion and we	etland hyd					H	Uery Other	Shallow [(Explain	Oark Surfa	ce (TF12)	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/08/2011 Applicant/Owner: Sampling Point: 24 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-4% Datum: Soil Map Unit Name: Lamartine silt loam (LmB) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) __ significantly disturbed? Are VegetationX, SoilX, or Hydrology ___ Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation_ , Soil _, or Hydrology _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area □No Hydrophytic Vegetation Present? ⊠Yes within a Wetland? Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠Yes** ПNо If yes, optional Wetland Site ID: PCA No. 11 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities (plowing and herbicide use). HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Drainage Patterns (B10) Surface Water (A1) Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) ☐ Dry-Season Water Table (C2) ☐ Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) \boxtimes Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Depth (inches): Yes No 🖂 Water Table Present? Yes 🛛 Depth (inches): 11 No \square Saturation Present? Yes 🛛 No 🗌 Depth (inches): 0 (at surface) Wetland Hydrology Present? No \square (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soils saturated at the surface.

VEG	ETAT	ION -	- Use	scientific	names of	plants.
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Tree Stratum (Plot size: 30' radius)	Absolute		Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	ALL AND ALL AN
1				Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2			_	LOUDING CONTRACTOR STATE AND CONTRACTOR CONT
3			_	Total Number of Dominant
4		- D	_	Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6		ш.		That Are OBL, FACW, or FAC: 100 (A/B)
7			2000	Prevalence Index worksheet:
	<u>0</u>	= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1			1	FACW species x 2 =
1	74			
2	1.7	10 -		FAC species x 3 =
3		불	-	FACU species x 4 =
4			_	UPL species x 5 =
5		ш	_	Column Totals: (A) (B)
6				Prevalence Index = B/A =
7			-	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
- N N N N N N N N N N N N N N N N N N N	<u>0</u>	= Total Cove	r	Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.01
1. Cyperus esculentus	67	× ·	FACW	☐ Morphological Adaptations¹ (Provide supporting
2. Setaria glauca	<u>6</u>	. 🗆	FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3	-			- Problematic Hydrophytic Vegetation (Explain)
	1 6	. =	E	¹ Indicators of hydric soil and wetland hydrology must
4	S		-	Be present, unless disturbed or problematic.
5	_	П		Definition of Venetaling States
6				Definitions of Vegetation Strata:
7	3	\Box		Tree – Woody plants 3in. (7.6 cm) or more in diameter
8				at breast height (DBH), regardless of height
9		口		Sapling/shrub – Woody plants less than 3in. DBH
10				and greater than 3.28 ft (1 m) tall.
11	-	\equiv		
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1300	73	= Total Cove		of size, and woody plants less than 5.20 it tall.
Week Vine Status (Blot size: 30' sadius)	10	- Total Cove	1	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)		-		height
1		<u> </u>		
2	10	ш		
3		П		Hydrophytic
4	******			Vegetation
	<u>O</u>	= Total Cove	er	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate shee	t.) Atypical (fa	armed) wetland.	Photo 27.	
16				
4				⁰ →
9				(4)
8		4		
				· · · · · · · · · · · · · · · · · · ·
1				
2 2				9
\$ 1 ₁				
				10

Depth	Matrix				Redox Fea	tures	* (6)				
(inches)	Color (moist)	%	Color (mo	oist)	%	Type ¹	Loc ²		Texture	Re	marks
-9	10YR 3/1	100	7.5YR 3/4		c/p	C	PL	Silty cla	ay loam		-
-12	10YR 3/1	100	5Y 5/1		c/p	D	M		ay loam		
			5YR 4/6		c/p	C	PL	**************************************	-		
2-15	10YR 3/2	50	7.5YR 4/6	1115	c/p	С	M	Clay			
	10YR 3/1	50		-	7	-					#
5-23	10YR 4/2 - 4/1	100	7.5YR 4/6		c/p	С		Clay			
	-										
								-			Tall .
		-									- 8020
		_						-			
					-						
					-			-			
	,		-								
Гуре: С=	Concentration, D=Depl	etion, RN	1=Reduced Ma	atrix, C	S=Covered o	or Coated Sar	nd Grains	-	² Location: PL=Por	e Lining, M=Ma	atrix
The second second second second second	il Indicators:			10 L.			SHANNE HOLLOWING		dicators for Probler		
100	Histosol (A1) Histic Epipedon (A2)		1	☐ Po	olyvalue Belo MLRA 149	w Surface (S	8) (LRR R,		2 cm Muck (A1		
	Black Histic (A3)		, ,	☐ Th		ace (S9) (LR I	PP MIPA	149B)	☐ Coast Prairie R☐ 5 cm Mucky Pe		[[: 12] [[: 1
	Hydrogen Sulfide (A4)					Mineral (F1) (1450)	☐ Dark Surface (\$		
	Stratified Layers (A5)		Ī		amy Gleyed				☐ Polyvalue Belo		
	Depleted Below Dark S		¥11) [☐ De	epleted Matri	x (F3)			☐ Thin Dark Surfa		
	Thick Dark Surface (A	N. C. S.			edox Dark Su) (LRR K, L, R)
	Sandy Mucky Mineral				10.57	Surface (F7)					9) (MLRA 149B
	Sandy Gleyed Matrix (S4)		☐ Re	edox Depres	sions (F8)					44A, 145, 149B)
	Sandy Redox (S5) Stripped Matrix (S6)								Red Parent Ma		
	Surpped Matrix (30)								Man Obeller P	and Outland /T	E40)
	Dark Surface (S7) (LR	RR MIE	2A 149B)						☐ Very Shallow D		F12)
	Dark Surface (S7) (LR	R R, MLF	RA 149B)						☐ Very Shallow D☐ Other (Explain		F12)
Indicators	of Hydrophytic vegetat	ion and w		ogy mu	st be presen	nt, unless distr	urbed or pro	oblematio	☐ Other (Explain		F12)
Indicators Restrictive	of Hydrophytic vegetate e Layer (if observed):	ion and w		ogy mu	st be presen	ıt, unless disti	urbed or pro		Other (Explain		F12)
Indicators Restrictive Type	of Hydrophytic vegetal e Layer (if observed): ::	ion and w		ogy mu	st be presen	nt, unless distr	urbed or pro		☐ Other (Explain		F12) No □
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	nt, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetal e Layer (if observed): ::	ion and w		ogy mu	st be presen	nt, unless dist	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	nt, unless dist	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	ıt, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	ıt, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	ıt, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	ıt, unless dist	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	ist be presen	it, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	ist be presen	it, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	ist be presen	it, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	it, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	it, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	it, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w		ogy mu	st be presen	it, unless distr	urbed or pro		Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w	vetland hydrolo		st be presen	ıt, unless dist		H	Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w			st be presen	ıt, unless dist		H	Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w	vetland hydrolo		st be presen	3		H	Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w	vetland hydrolo		st be presen	3	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	H	Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w	vetland hydrolo		st be presen	3	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	H	Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w	vetland hydrolo		st be presen	3	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	H	Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w	vetland hydrolo		st be presen	3	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	H	Other (Explain	in Remarks)	
Indicators Restrictive Type Dept	of Hydrophytic vegetate e Layer (if observed): :: th (inches):	ion and w	vetland hydrolo		st be presen		4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	H	Other (Explain	in Remarks)	No 🗆

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass Sampling Date: 11/08/2011 City/County: City and Town of Waukesha, Waukesha County Applicant/Owner: Sampling Point: 25 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-4% Lat: Long: Datum: Soil Map Unit Name: Lamartine silt loam (LmB) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No M (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation_____, Soil_____, or Hydrology __ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? Yes No Hydric Soils Present? **⊠**Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 12 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days (rain is starting to fall during data collection). Disturbed vegetation and soils due to agricultural land management activities. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Microtopographic Relief (D4) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖾 Depth (inches): _ Water Table Present? Yes 🛛 No 🗆 Depth (inches): 15 Saturation Present? Yes 🛛 No 🗆 Depth (inches): 0* (at surface) Wetland Hydrology Present? Yes X No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soils saturated at the surface (may partially be attributed to current weather conditions).

VEGETATION – Use scientific names of plants.				Sampling Point: 25
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2	3 - 3			Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant
4 5				Species Across All Strata: 1 (B) Percent of Dominant Species
6	-	П	-	That Are OBL, FACW, or FAC: 0 (A/B)
7			_	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 30' radius)	0	= Total Cove	er	
1				AND THE STATE OF T
2	-			
3	1		. —	FAC species x 3 =
4				FACU species x 4 =
5				UPL species x5 =
				Column Totals: (A) (B)
6	7			Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
7		П.		Rapid Test for Hydrophytic Vegetation
Hart Charles (District of States)	<u>0</u>	= Total Cov	er	Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	E0.	M	NII	☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
1. Zea mays (harvested)	50		NI	data in Remarks or on a separate sheet)
2				☑ Problematic Hydrophytic Vegetation¹ (Explain)
3				¹ Indicators of hydric soil and wetland hydrology must
4		П	-	Be present, unless disturbed or problematic.
5		П	-	
6	7	Д		Definitions of Vegetation Strata:
7				Tree – Woody plants 3in. (7.6 cm) or more in diameter
8	1,7 1,7	П		at breast height (DBH), regardless of height
9		П		Sapling/shrub – Woody plants less than 3in. DBH
10	ÿ - ; 	П		and greater than 3.28 ft (1 m) tall.
11				N-t All 6-t
12	-			Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10)	50	= Total Cov	er	*
Woody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in
1.			(height
2	·	$\overline{\Box}$		William Company
3	Mark and St	_		
4	-			Hydrophytic Vegetation
7.	0	= Total Cov		Present? Yes □ No ⊠
Remarks: (include photo number here or on a separate sheet				managed plant community area consisting of Zea
mays. Wetland determination made based on indicators of hy				
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g.	9.0			
22 n				
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9 Y				
Dr. 10				

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Depth	Matrix				Redox Fea	itures					Hard the same of the		
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²		Texture		F	Remarks	
-13	10YR 2/1	100		(inolot)			200	Silty o	lay loam			Territoria	
			7 EVD 4/	c			- 14						-
3-22	10YR 4/2	50	7.5YR 4/	ь	c/p	c	M	Clay lo	oam				-
	2.5Y 4/1	50											
												45	
				V.10-2-1			5						
			1//	-									
			-					-					-
	-						-	_					_
								-					-
	- CALLETTININ		70 17										
	Concentration, D=Deple	etion, RN	M=Reduced	Matrix, C	S=Covered	or Coated Sa	nd Grains				e Lining, M=		
	oil Indicators:			0 <u>-2</u> 1 (200							natic Hydric		
	Histosol (A1)			☐ Po		ow Surface (S	8) (LRR R,					, MLRA 149B))
0.000000	Histic Epipedon (A2)				MLRA 14		D D 141 C 4	4400				LLR K, L, R)	D.
	Black Histic (A3) Hydrogen Sulfide (A4)					face (S9) (LR Mineral (F1)					eat or Peat (5 57) (LRR K ,	33) (LLR K, L, I	K)
	Stratified Layers (A5)				amy Gleved		(LKK K, L)					88) (LRR K, L)	
	Depleted Below Dark S	Surface (A11)	50000 K K K K K K K K K K K K K K K K K	epleted Matr						ace (S9) (LR		
					edox Dark S							12) (LRR K, L,	R
	Sandy Mucky Mineral (S1)				Surface (F7)	() St					F19) (MLRA 14	
	Sandy Gleyed Matrix (S			☐ Re	edox Depres	sions (F8)			☐ Mes	ic Spodic (TA6) (MLRA	144A, 145, 14	19B
	Sandy Redox (S5)	*							Red	Parent Ma	iterial (TF2)		
. 📙									☐ Very	Shallow E	ark Surface	(TF12)	
		D D 841	DA 440D)									(11 12)	
	Dark Surface (S7) (LR	R R, ML	RA 149B)								in Remarks)	(11 12)	
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: State: WI Sampling Point: 26 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Long: Datum: Soil Map Unit Name: Matherton silt loam (MmA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation_ _, Soil_ (If, needed, explain any answers in Remarks.) ___, or Hydrology ____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ⊠ Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠**Yes □N₀ If yes, optional Wetland Site ID: PCA No. 12 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) ☐ - Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Depth (inches): Water Table Present? Depth (inches): 19 Yes 🖾 No 🗆 Saturation Present? Yes 🛛 Depth (inches): 0 (at surface) Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: NRCS slide review shows 10 out of 10 years with wet signatures. Soils saturated at the surface.

VEGETATION	- Use scientific names of	plants.
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% Cover	Species?	ndicator Status	Dominance Test worksheet:
			Number of Dominant Species
		C	That are OBL, FACW, or FAC: 0 (A)
			AND CONTRACTOR OF THE CONTRACT
			Total Number of Dominant Species Across All Strata: 1 (B)
		-	Opecies Across Air Strata.
_		_	Percent of Dominant Species
		-	That Are OBL, FACW, or FAC: 0 (A/B)
		<u>,</u>	Prevalence Index worksheet:
0	= Total Cover		Total % Cover of: Multiply by:
			OBL species x 1 =
		<u> </u>	FACW species x 2 =
			FAC species x 3 =
	H	0	
	=		FACU species x 4 =
		== 1	UPL species x 5 =
-	분		Column Totals: (A) (B)
		_	Prevalence Index = B/A =
) <u> </u>		Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
<u>O</u>	= Total Cover		Dominance Test is >50%
*			☐ Prevalence Index is =3.0 ¹
50	⊠	<u>NI</u>	☐ Morphological Adaptations¹ (Provide supporting
2	П	2000	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
	-		24 Frobishatic Hydrophytic Vegetation (Explain)
	=======================================	-	¹ Indicators of hydric soil and wetland hydrology must
(<u> </u>		Be present, unless disturbed or problematic.
-	П		
			Definitions of Vegetation Strata:
-			Tree – Woody plants 3in. (7.6 cm) or more in diameter
	П		at breast height (DBH), regardless of height
	П		Sapling/shrub – Woody plants less than 3in. DBH
	П		and greater than 3.28 ft (1 m) tall.
		-	
			Herb – All herbaceous (non-woody) plants, regardless
			of size, and woody plants less than 3.28 ft tall.
50	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in
			height
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			Vegetation
	<u> </u>	□ = Total Cover □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	0 = Total Cover □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

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(inches)	Color (moist)	%	Color	(moist)	%	туре	Loc ²		Textu	re	-	Re	marks	
0-16	10YR 2/1	100			- N			Clay I	oam					
16-22	10Y 4/1	100	7.5YR 3/		c/p	C	M	Clay						
			2.5Y 5/2		c/d	D	M							
22		-									Refusal			
			4 4		-			_						
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		-												
				141				-		1				
			80 <u></u>											
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1								2000-0						
	Concentration, D=Dep il Indicators:	letion, RM	1=Reduced	Matrix, C	S=Covered	or Coated San	d Grains	-		tion: PL=P				
ALC: NO CONTRACTOR OF THE PARTY	Histosol (A1)			□ Po	olyvalue Belo	ow Surface (S8	(IRRR			s for Problem Muck (A				149R)
	Histic Epipedon (A2)			П	MLRA 14	and the second of the second second	// (=:::::::::::::::::::::::::::::::::::	,		oast Prairie				
	Black Histic (A3)			☐ Th	nin Dark Surf	face (S9) (LRF	R, MLRA	A 149B)		cm Mucky F				Control of the second
	Hydrogen Sulfide (A4))				Mineral (F1) (I	RR K, L)			ark Surface				
	Stratified Layers (A5) Depleted Below Dark	Surface (/	111)	(S) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A	oamy Gleyed epleted Matr					olyvalue Be				K, L)
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	Sandy Redox (S5)									ed Parent N				
	Stripped Matrix (S6) Dark Surface (S7) (LF	DE MIE	2A 149B\							ery Shallow ther (Explai			F12)	
	Dark Surface (ST) (LI													
										aror (Explor	ii iii reilia	arks)		
	of Hydrophytic vegeta	ition and v		Irology mu	ust be preser	nt, unless distu	rbed or pr	roblemat		aror (Explai	ii iii rveina	arks)		
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Sampling Point: 27 Applicant/Owner: State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 0-2% Long: Datum: Soil Map Unit Name: Sebewa silt loam (Sm) Pd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 Are Vegetation_____, Soil_____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area **⊠**No Hydrophytic Vegetation Present? □Yes within a Wetland? □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠Yes** □No If yes, optional Wetland Site ID: PCA No. 12 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) \boxtimes Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Geomorphic Position (D2) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) ☐ Other (Explain in Remarks) \boxtimes Inundation Visible on Aerial Imagery (B7) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes No 🖂 Depth (inches): Saturation Present? Yes 🛛 No 🗆 Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes 🖂 No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: NRCS slide review shows 10 out of 10 years with wet signatures. Soils saturated from the surface to bottom of pit at 23". Professional judgement used in determination of A3. Saturation. Assumption made that the water table is present below 23". In addition, a clay lense (restrictive layer) is observed at

ree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
·	% Cover	Species?	Status	TOTAL MENNANDO DE ANTRE MORRO DE PREMIUM MENSOR DE LA RESPE
			2 	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
	_		_	Total Number of Dominant
	1		-	Species Across All Strata: 1 (B)
<u> </u>	9	Ξ.		Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
e p	_			
			 -	Prevalence Index worksheet:
	Ō	= Total Cove	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
		. 🖳	_	FACW species x 2 =
	· ·			FAC species x 3 =
	1			FACU species x 4 =
			_	UPL species x 5 =
<u></u>				Column Totals: (A) (E
	·	П		Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	<u>O</u>	= Total Cove	er	Dominance Test is >50%
rb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0¹
Glycine max (harvested)	<u>50</u>		NI	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
<u></u>	-			Problematic Hydrophytic Vegetation¹ (Explain)
				¹ Indicators of hydric soil and wetland hydrology mus Be present, unless disturbed or problematic.
				be present, unless disturbed of problematic.
	-		()	Definitions of Vegetation Strata:
		- 🗀		Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
			3	
		_		Sapling/shrub – Woody plants less than 3in. DBH
		片		and greater than 3.28 ft (1 m) tall.
			-	Herb - All herbaceous (non-woody) plants, regardles
				of size, and woody plants less than 3.28 ft tall.
	<u>50</u>	= Total Cove	er	Woody vines – All woody vines greater than 3.28 ft
oody Vine Stratum (Plot size: 30' radius)				height
under p v				<u> </u>
			-	
				Hydrophytic
				Vegetation
	<u>0</u>	= Total Cove	er	Present? Yes ☐ No ☒

Depth	Matr	ix		- 1	Redox Feat			_			
inches)	Color (moist)	%	Color (r	moist)	%	Type ¹	Loc ²		Γexture	, ,	Remarks
13	10Y 2.5/1	100						Silty clay	loam		
-16	2.5Y 3/1	90	7.5YR 4/6		c/p	С	M	Clay			
	N 1/0	10	7.5YR 3/4		c/p	С	M	1			
-23	2.5Y 5/1	100	7.5YR 5/8		m/p	С	М	Clay			
											
	27			ē							
		-0.000		-110		-					<u> </u>
			-								
					-	-					-035-1041
			-								
pe: C=	Concentration, D=	Depletion, RN	M=Reduced N	Aatrix, CS:	Covered o	r Coated San	d Grains		Location: PL=Po	re Lining, M=	Matrix
	il Indicators:	12		verse construct			sanotile regresses	India	ators for Proble	matic Hydric	Soils³:
	Histosol (A1)	101		100		w Surface (S	B) (LRR R,				, MLRA 149B)
	Histic Epipedon (AB)	12)			MLRA 149	в) ace (S9) (LRF	D MIDA	1408)			
	Hydrogen Sulfide	(A4)				Mineral (F1) (.149B) [프		3) (LLR K, L, R)
	Stratified Layers (1			ny Gleyed			Ë			
	Depleted Below D		A11)		leted Matrix			Ē			
	Thick Dark Surfac		3 3 5	☐ Red	ox Dark Su	rface (F6)					12) (LRR K, L, R
	Sandy Mucky Min	50000000000000000000000000000000000000		☐ Dep	leted Dark	Surface (F7)			Piedmont Floo	dplain Soils (F19) (MLRA 149
	Sandy Gleyed Ma			☐ Red	ox Depress	ions (F8)				(TA6) (MLRA	
					the second second						
	Sandy Redox (S5							, [Red Parent Ma		
	Stripped Matrix (S	66)			7)			, [Red Parent Ma Very Shallow I	Dark Surface	
		66)	RA 149B)		7)				Red Parent Ma	Dark Surface	
	Stripped Matrix (S Dark Surface (S7)	66) (LRR R, ML		ology must	ā		urbed or pro		Red Parent Ma Very Shallow I	Dark Surface	
dicators	Stripped Matrix (S	66) (LRR R, ML getation and		ology must	ā		urbed or pro		Red Parent Ma Very Shallow I	Dark Surface	
dicators strictive	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve te Layer (if observe: Clay	66) (LRR R, ML getation and		ology must	ā		urbed or pro	oblematic.	Red Parent Ma Very Shallow I	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		irbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve te Layer (if observe: Clay	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		irbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		irbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pro	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		irbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		irbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
ndicators estrictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
dicators strictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
ndicators estrictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)
ndicators estrictive Type Dept	Stripped Matrix (S Dark Surface (S7) of Hydrophytic ve e Layer (if observe: Clay th (inches): 13"	(6) (LRR R, ML getation and ved):		ology must	ā		urbed or pre	oblematic.	Red Parent Mi Very Shallow I Other (Explain	Dark Surface in Remarks)	(TF12)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Sampling Point: 28 Applicant/Owner: State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 2-6% Long: Datum: Soil Map Unit Name: Hochheim Ioam (HmB2) Wd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation__ __, Soil__ ___, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ☐Yes ⊠No within a Wetland? ☐ Yes □No Hydric Soils Present? ☐Yes ⊠No Wetland Hydrology Present? □Yes **⊠**No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) ☐ Saturation (A3) Marl Deposits (B15) ☐ Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) ☐ Algal Mat or Crust (B4) Geomorphic Position (D2) ☐ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aguitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Depth (inches): No 🖂 Water Table Present? Yes No \bowtie Depth (inches): Saturation Present? Yes No 🖂 Depth (inches): Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

VEGETATION - Use scientific names of plan	names of plants.	scientific name	- Use	ATION	VEGET
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Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1	70 COVE		Number of Dominant Species
15/27	-		That are OBL, FACW, or FAC: 0 (A)
2			
3		ш	Total Number of Dominant
4	-	П	Species Across All Strata: 1 (B)
5		П	Percent of Dominant Species
6		П	That Are OBL, FACW, or FAC: 0 (A/B)
7			Prevalence Index worksheet:
	<u>o</u>	= Total Cover	1 272 97 2000 200 38 275554201 33
Sapling/Shrub Stratum (Plot size: 30' radius)		- Total Cover	Total % Cover of: Multiply by:
() () () () () () () () () ()			OBL species x 1 =
1		<u> </u>	FACW species x 2 =
2			FAC species x 3 =
3	- V	П	FACU species x 4 =
4		□	UPL species x 5 =
5		п	
6		<u> </u>	
		<u> </u>	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
7			Rapid Test for Hydrophytic Vegetation
	<u>O</u>	= Total Cover	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)			☐ Prevalence Index is =3.0¹
Glycine max (harvested)	50	NI	☐ Morphological Adaptations¹ (Provide supporting
2			data in Remarks or on a separate sheet)
3			☐ Problematic Hydrophytic Vegetation¹ (Explain)
			1 Indicators of hydric soil and wetland hydrology must
4	_		Be present, unless disturbed or problematic.
5		п —	
6			Definitions of Vegetation Strata:
7		Π	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8		П	at breast height (DBH), regardless of height
9			Sapling/shrub – Woody plants less than 3in. DBH
10			and greater than 3.28 ft (1 m) tall.
11,		<u> </u>	
SM(min) = 2			Herb All herbaceous (non-woody) plants, regardless
12	-		of size, and woody plants less than 3.28 ft tall.
Supermon - A. C. San C.	<u>50</u>	= Total Cover	Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)			height
1			
2.		П	
2			+
3	_		Hydrophytic
4	· ·	ш	Vegetation Present? Yes □ No ⊠
	0	= Total Cover	Present? Yes ☐ No ☒
Remarks: (include photo number here or on a separate sheet	t.) Agricultura	I field. Photo 31.	
			· ·
	9		y .
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2			9 8
b			Ÿ.
7			9
The second secon			

	escription: (Describ					tire ti	osence or			
Depth	Matrix		- 16	Redox Feat						
(inches)	Color (moist)	%	Color (moist)) %	Type ¹	Loc2		Γexture	Ren	narks
0-10	10YR 2/2	100					Clay			
10-14	2.5Y 3/2	90	7.5YR 4/6	c/p	С	M	Clay		- 1708 - 1715 - 1715 - 1715	
	10YR 4/2	10								
14-20	2.5Y 4/3	100	2.5Y 3/2	c/d	D	M	Sandy cla	ıv		
			10YR 4/6	c/p	C	M			-	
			10111110							
			A				A			
-			· 						-	
									. V	
) (
			. <u> </u>							
						- 3			****	
	Concentration, D=D	epletion, RN	N=Reduced Matrix	, CS=Covered o	or Coated Sar	d Grains		Location: PL=Pore		
Christian and Company	bil Indicators:			Debarel D. I	0	0) (1 55 5		ators for Problema		
	Histosol (A1) Histic Epipedon (A2	N.		Polyvalue Belom MLRA 149		8) (LRR R,		2 cm Muck (A10) Coast Prairie Rec	(LRR K, L, M	LRA 149B)
237330	Black Histic (A3)	,		Thin Dark Surfa		R MIRA				
	Hydrogen Sulfide (A	N4)	. 5	Loamy Mucky I			[LLIN IX, L, IX)
	Stratified Layers (A	5)		Loamy Gleyed	Matrix (F2)		Ē	프로그램 시간 사람이 되었다. 그런 사람들은 사람들은 사람들은 사람들은 사람들은 사람들이 되었다.		LRR K, L)
	Depleted Below Da		A11) 🔲	Depleted Matrix				그 내는 아니라는 경기에 가는 사람들은 얼마를 받아 있다.		
	Thick Dark Surface			Redox Dark Su			Ē	Iron-Manganese		
	Sandy Mucky Miner			Depleted Dark						
	Sandy Gleyed Matr Sandy Redox (S5)	IX (54)	. II □	Redox Depress	sions (F8)		L	Mesic Spodic (TA Red Parent Mate		IA, 145, 149B)
	Stripped Matrix (S6)					Ē	프라 - ' ' - ' ' - ' ' - ' ' ' ' ' ' ' ' '	TARING TO STATE OF THE STATE OF	12)
000000	Dark Surface (S7) (%	RA 149B)				Ĭ	Other (Explain in		3.57
2000										
	of Hydrophytic vege		vetland hydrology	must be present	t unlace diet					
Restrictive		**			t, unless disc	arbed or pro	oblematic.			
	e Layer (if observe	d):			t, unless dist	irbed or pro				
Туре	e:	ed):			t, unless dist	irbed or pro		ric Soil Present?	Yes 🗌	No 🛛
Type Dept	e: th (inches):		eoile praeant		t, unless dist	urbed or pro		ric Soil Present?	Yes 🗌	No 🗵
Type Dept	e:		soils present.		i, unless dist	urbed or pro		ric Soil Present?	Yes 🗌	No 🗵
Type Dept	e: th (inches):		soils present.	e e e e e e e e e e e e e e e e e e e	t, unless disc	urbed or pro		ric Soil Present?	Yes 🗌	No 🛛
Type Dept	e: th (inches):		soils present.	il il	t, unless disc	urbed or pro		ric Soil Present?	Yes 🗌	No 🗵
Type Dept	e: th (inches):		soils present.	id W ac	t, unless disc	irbed or pro		ric Soil Present?	Yes 🗆	No ⊠
Type Dept	e: th (inches):		soils present.	id Ar ac	t, unless disc	irbed or pro		ric Soil Present?	Yes 🗆	No ⊠
Type Dept	e: th (inches):		soils present.	id W with	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No ⊠
Type Dept	e: th (inches):		soils present.	id W with	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No ⊠
Type Dept	e: th (inches):		soils present.	id W with	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No ⊠
Type Dept	e: th (inches):		soils present.	is and	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No ⊠
Type Dept	e: th (inches):		soils present.	is and	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No ⊠
Type Dept	e: th (inches):		soils present.	V AC	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.	i di	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.	in the second se	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.	in the second se	t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵
Type Dept	e: th (inches):		soils present.		t, umess usu	irbed or pro		ric Soil Present?	Yes 🗆	No 🗵

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: State: WI Sampling Point:29 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6n, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 2-6% Long: Datum: Soil Map Unit Name: Casco Ioam (CeB) NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 No П Are Vegetation____, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ☐ Yes ⊠No within a Wetland? ⊠ Yes □No ⊠Yes Hydric Soils Present? □No Wetland Hydrology Present? **⊠Yes** □No If yes, optional Wetland Site ID: PCA No. 13 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) \boxtimes Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) □ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) \boxtimes Inundation Visible on Aerial Imagery (B7) □ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🛛 No 🗆 Depth (inches): 17 Saturation Present? Yes 🛛 No 🗆 Depth (inches): 0 (at surface) Wetland Hydrology Present? Yes 🖂 No \square (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: NRCS slide review shows 10 out of 10 years with wet signatures. Soils saturated at the surface.

VEGETATION – Use scientific names of plants.				Sampling Point: 29
Tree Stratum (Plot size: 30' radius)	Absolute <u>% Cover</u>	Dominant Species?	Indicator Status	Dominance Test worksheet:
1		П		Number of Dominant Species
2				That are OBL, FACW, or FAC: 0 (A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0 (A/B)
7			-	Prevalence Index worksheet:
	<u>o</u>	= Total Cove		47.44.1 (1920 (1930 - 1)
Sapling/Shrub Stratum (Plot size: 30' radius)	-	- Total Cove		Total % Cover of: Multiply by: OBL species x 1 =
				1
1	1.0			FACW species x 2 =
2			-	FAC species x 3 =
3		ш	-	FACU species x 4 =
4		П	_	UPL species x 5 =
5	-	П		Column Totals: (A) (B)
6		\Box		Prevalence Index = B/A =
7			-	Hydrophytic Vegetation Indicators:
10 x 2 x 2	0	= Total Cove	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				Prevalence Index is =3.01
Glycine max (harvested)	50		NI	☐ Morphological Adaptations¹ (Provide supporting
2		П		data in Remarks or on a separate sheet)
3				□ Problematic Hydrophytic Vegetation¹ (Explain)
00000	-			¹ Indicators of hydric soil and wetland hydrology must
4	_	- Д		Be present, unless disturbed or problematic.
5	-		-	
6		П		Definitions of Vegetation Strata:
7	-	П	-	Tree - Woody plants 3in. (7.6 cm) or more in diameter
8		口		at breast height (DBH), regardless of height
9				Sapling/shrub – Woody plants less than 3in. DBH
10				and greater than 3.28 ft (1 m) tall.
11		$\overline{\Box}$		34-74-0000 754-2000 000 34-000 2000 2000 2000 2000 2000 2000 2000
12				Herb – All herbaceous (non-woody) plants, regardless
12.	50			of size, and woody plants less than 3.28 ft tall.
200 4 00 100 10 00017 0 10001 0 10	<u>50</u>	= Total Cove	er	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1	-	П		
2		Д	_	0.00003
3	1 1	\Box	_	Hydrophytic
4				Vegetation
1)	0	= Total Cove	er	Present? Yes □ No ⊠
Remarks: (include photo number here or on a separate sheet				
max. Wetland determination made based on indicators of hyd	fric soils and	wetland hydrolog	gy. Atypical	(farmed) wetland. Photo 32.
1.				
a s				
· · · · · · · · · · · · · · · · · · ·				
*				

Pith Matrix Redox Features Color (moist) % Color (moist) % Type ¹ Loc ² Texture Remail Clay loam C	ks
20 2.5Y 4/1 50 7.5YR 4/6 c/p C M Clay loam 2.5Y 4/2 50 E: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2.5Y 4/1 50 7.5YR 4/6 c/p C M Clay loam 2.5Y 4/2 50 2.5Y	
20 2.5Y 4/1 50 7.5YR 4/6 c/p C M Clay loam 2.5Y 4/2 50 E: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2 Location: PL=Pore Lining, M=Matrix	
2.5Y 4/2 50 2.5Y	
e: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining, M=Matrix	
e: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining, M=Matrix	
e: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining, M=Matrix	
e: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining, M=Matrix	
그리고	
☐ Histosol (A1) ☐ Polyvalue Below Surface (S8) (LRR R, ☐ 2 cm Muck (A10) (LRR K, L, MLF ☐ Histic Epipedon (A2) ☐ Coast Prairie Redox (A16) (LLR R	
☐ Histic Epipedon (A2)	
☐ Hydrogen Sulfide (A4) ☐ Loamy Mucky Mineral (F1) (LRR K, L) ☐ Dark Surface (S7) (LRR K, L)	.iv iv, L, iv
☐ Stratified Layers (A5) ☐ Loamy Gleyed Matrix (F2) ☐ Polyvalue Below Surface (S8) (LF	RK, L)
□ Depleted Below Dark Surface (A11) □ Depleted Matrix (F3) □ Thin Dark Surface (S9) (LRR K, L	
☐ Thick Dark Surface (A12) ☐ Redox Dark Surface (F6) ☐ Iron-Manganese Masses (F12) (L	
□ Sandy Mucky Mineral (S1) □ Depleted Dark Surface (F7) □ Piedmont Floodplain Soils (F19) (□ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A	
□ Sandy Gleyed Matrix (S4) □ Redox Depressions (F8) □ Mesic Spodic (TA6) (MLRA 144A □ Sandy Redox (S5) □ Red Parent Material (TF2)	145, 149
Stripped Matrix (S6) Stripped Matrix (S6)	Š.
☐ Dark Surface (S7) (LRR R, MLRA 149B) ☐ Other (Explain in Remarks)	
cators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
rictive Layer (if observed):	
Type: Hydric Soil Present? Yes ⊠ N	· 🗆
arks: Soil is regularly plowed.	
and conto regularly provide.	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: Sampling Point: 30 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 6-12% Long: Datum: Soil Map Unit Name: Hochheim Ioam (HmC2) Wd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology ____ _ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation_ _, Soil__ (If, needed, explain any answers in Remarks.) __, or Hydrology ___ __ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ☐Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) П Surface Water (A1) □ Water-Stained Leaves (B9) □ Drainage Patterns (B10) ☐ High Water Table (A2) Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) ☐ Saturation (A3) Marl Deposits (B15) □ Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖂 Depth (inches): Water Table Present? Yes 🗌 No \boxtimes Depth (inches): Saturation Present? Yes 🗌 No 🖂 Depth (inches): Wetland Hydrology Present? No 🖂 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

VEGETATION - Use scien	ntific names of plants.
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Tree Stratum (Plot size: 30' radius)	Absolu % Cov		Indicator Status	Dominance Test worksheet:
1	<u> 76 COV</u>	Species:	Status	PRINCIPLE OF THE PRINCI
24				Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
2				
3	S		***	Total Number of Dominant
4			-	Species Across All Strata: 1 (B)
5	Y	. Д	_	Percent of Dominant Species
6	2 4	. П		That Are OBL, FACW, or FAC: 0 (A/B)
7		П	3	Prevalence Index worksheet:
7	<u>0</u>	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1	- 10-	П	<u> </u>	FACW species x 2 =
2		П		FAC species x 3 =
3				
	-		-	FACU species x 4 =
4	-			UPL species x 5 =
5	-	- 📙	************	Column Totals: (A) (B)
6	<u></u>	- 🖳	-	Prevalence Index = B/A =
7		- Д	-	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
WAY AND MAKENING ON THE PROPERTY OF THE PROPER	<u>0</u>	= Total Cove	er	Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				Prevalence Index is =3.01
1. Glycine max (harvested)	<u>50</u>	⊠	NI	Morphological Adaptations¹ (Provide supporting
2	g <u></u>			data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3				
				¹ Indicators of hydric soil and wetland hydrology must
4	· ·	_		Be present, unless disturbed or problematic.
5			-	Definitions of Vegetation Strata:
6				Definitions of Vegetation Strata.
7	-	_ Д	-	Tree - Woody plants 3in. (7.6 cm) or more in diameter
8 9			, ,	at breast height (DBH), regardless of height
9	4	_ Д		Sapling/shrub – Woody plants less than 3in, DBH
10	-	- П		and greater than 3.28 ft (1 m) tall.
11	79	. 🗇	2 1	
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
107	50	= Total Cove	·-	of size, and woody plants less than 3.20 it tall.
Woods Non-Chat - (District - ON - diss)	-	- Total Cove	21	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)		_		height
1	-	- <u>-</u>		
2	1777	_ 😐		
3	-		200	Hydrophytic
4		Д	Annual Contract of the Contrac	Vegetation
	<u>o</u>	= Total Cove	er	Present? Yes ☐ No ☒
Remarks: (include photo number here or on a separa	te sheet.) Agricul			
- W W				
7				
8				
K				ÿ
				77 - 8
0				P.
30				
2				
. 8 2	× ,			X '

Depth	Matrix			Redox Fe	eatures		7-1		
(inches)	Color (moist)	%	Color (mois	t) %	Type ¹	Loc ²	Texture	Rema	arks
0-13	10YR 3/2	100	The second of th				Silty clay loam		
13-22	10YR 4/3	80			- St		Clay		
	10YR 4/2	20							
	1							- Mandall	
		-							
- 777				_					
	-								
								(· ·	
				_					
Type: C=	Concentration, D=Dep	letion RM=R	Reduced Matrix	x CS=Covered	d or Coated Sar	nd Grains	2 ocation: PI =	Pore Lining, M=Matri	v
	il Indicators:	- 4511 1311-13	TO AND ON THE LEFT	., 00-0070101	o or ocated cal	orania		olematic Hydric Soil	
	Histosol (A1)			Polyvalue Be	elow Surface (S	8) (LRR R,		(A10) (LRR K, L, ML	
	Histic Epipedon (A2)		1	MLRA 1	(1000800MC)			ie Redox (A16) (LLR	
	Black Histic (A3)				urface (S9) (LRI			Peat or Peat (S3) (L	LR K, L, R)
	Hydrogen Sulfide (A4) Stratified Layers (A5)		H		y Mineral (F1) (ed Matrix (F2)	LRR K, L)		ce (S7) (LRR K, L) Selow Surface (S8) (L	DD K I \
	Depleted Below Dark	Surface (A11		Depleted Ma				Surface (S9) (LRR K,	
	Thick Dark Surface (A	12)		Redox Dark				nese Masses (F12) (I	3.75
	Sandy Mucky Mineral				rk Surface (F7)			loodplain Soils (F19)	
	Sandy Gleyed Matrix	(S4)		Redox Depre	essions (F8)			lic (TA6) (MLRA 1447	A, 145, 149B)
	Sandy Redox (S5) Stripped Matrix (S6)							Material (TF2) w Dark Surface (TF1:	2)
	Dark Surface (S7) (LF	R R. MLRA	149B)					ain in Remarks)	۷)
			nestrati				— (
	of Hydrophytic vegeta		and hydrology	must be pres	ent, unless dist	urbed or probl	ematic.		
Restrictive Type	e Layer (if observed)								
	th (inches):						Hydric Soil Prese	nt? Yes 🗌 🛚 N	1o 🛛
		. Upland so	ils present.						-
	Soil is regularly plowed		. 50		2.5				
	Soil is regularly plowed								
	Soil is regularly plowed								
	Soli is regularly plowed			7					
	Soil is regularly plowed			# J.					
	Soil is regularly plowed			* ,					
	Soil is regularly plowed			D ,					
	Soil is regularly prowed			# 1. (
	Soil is regularly prowed			* ,					
	Soil is regularly prowed			e y					
	Soil is regularly prowed								
	Soil is regularly prowed								
	Soil is regularly prowed								
	Soil is regularly prowed								
	Soil is regularly prowed						2		
	Soil is regularly prowed						,		
	Soil is regularly prowed						,		
	Soil is regularly prowed						2		
	Soil is regularly prowed								
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							\$		

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: State: WI Sampling Point: 31 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): drainageway Local relief (concave, convex, none): concave Slope (%): 1-4% Lat: Datum: Long: Soil Map Unit Name: Lamartine silt loam (LmB) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 Are Vegetation____, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. □Yes Is the Sampled Area ⊠No Hydrophytic Vegetation Present? within a Wetland? ✓ Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠**Yes □No If yes, optional Wetland Site ID: PCA No. 13 Remarks: (Explain alternative procedures here or in a separate report,) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year, PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) \Box Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) \boxtimes Saturation (A3) Marl Deposits (B15) \boxtimes Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) ☐ Other (Explain in Remarks) \bowtie Inundation Visible on Aerial Imagery (B7) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🖂 No 🗌 Depth (inches): 17.5 Saturation Present? Yes 🛛 No 🗆 Depth (inches): 6 Wetland Hydrology Present? Yes 🖂 No 🗆 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Sample site located within a drainage swale. NRCS slide review shows 10 out of 10 years with wet signatures,

VEGETATION – Use scien	tific names of plants.				Sampling Point: 31
Tree Stratum (Plot size: 30' ra	adius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1			П	-	Number of Dominant Species
2			\Box		That are OBL, FACW, or FAC: 0 (A)
3			- 🗆		Total Number of Dominant
4		- 6			Species Across All Strata: 1 (B)
5					Barrent of Barreland Country
6				-	Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
1000 mm m m m m m m m m m m m m m m m m			끈		
7		100			Prevalence Index worksheet:
		0	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot	size: <u>30' radius</u>)				OBL species x 1 =
1			口		FACW species x 2 =
2				1000	FAC species x 3 =
3	(i)				
4				-	FACU species x 4 =
			_	-	UPL species x 5 =
5		-	브	-	Column Totals: (A) (B)
6			ш	_	Prevalence Index = B/A =
7		1			Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
		0	= Total Cove	er	Dominance Test is >50%
Herb Stratum (Plot size: 5' ra	dius)				☐ Prevalence Index is =3.01
1. Glycine max (harvested)		<u>50</u>	\boxtimes	NI	☐ Morphological Adaptations¹ (Provide supporting
2				2 2	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3					Z Troblematic Hydrophytic vegetation (Explain)
					¹ Indicators of hydric soil and wetland hydrology must
4		-	OVER 1		Be present, unless disturbed or problematic.
5		-	П		Definitions of Vanctation Strate.
6		-			Definitions of Vegetation Strata:
7					Tree – Woody plants 3in. (7.6 cm) or more in diameter
8		-	口	-	at breast height (DBH), regardless of height
9		200		2-2	Seetle debut West state to the St. BB()
10	7				Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11					
12				() E	Herb All herbaceous (non-woody) plants, regardless
12					of size, and woody plants less than 3.28 ft tall.
9990 W. 1993 2990 10 X3650245 III		<u>50</u>	= Total Cove	ər	Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot siz	e: 30' radius)				height
1		-			
2					
3				7 10 -0	Hydrophytic
4.					Vegetation
1.50		0	= Total Cove	ar	Present? Yes ☐ No ⊠
Remarks: (include photo nun	ber here or on a separate sheet				I rm managed plant community area consisting of glycine
max. Wetland determination	made based on indicators of hyd	ric soils and v	wetland hydrolo	gy. Atypical	(farmed) wetland. Photo 34.
	W.				
2				*	
3					
+					

Depth	Matrix				Redox Feat							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	200	Texture		Re	emarks
-13	10YR 2/1	100						Silty cl	ay loam			-
3-18.5	2.5Y 3/1	80	10YR 5/6		c/p	С	M	Clay				
	2.5Y 4/2	20			0.3340							
3.5-26	2.5Y 5/2	100	10YR 5/8		m/p	C	М	Clay	===V	///		
			V. 100.									
				1	7		2)					
				-2-1		X						
				- Indiana				74.				
											2	
				-0000								
		-				0.004/2000					/	- 10
wno: C-	Concentration D-Dor	alatian DA	4-Ded. and	Matala O	0-0	- 01-10	10-1-		21	Di D		
	Concentration, D=Depoil Indicators:	pletion, Riv	/I=Reduced	viatrix, C	S=Covered o	r Coated San	d Grains	In	"Location: idicators for		Lining, M=M	
	Histosol (A1)			☐ Po	olyvalue Belov	w Surface (S8	3) (LRR R,					MLRA 149B)
	Histic Epipedon (A2)				MLRA 149	67. 2 7	-				dox (A16) (L	
	Black Histic (A3)			72 TO 100	nin Dark Surfa			149B)) (LLR K, L, R
	Hydrogen Sulfide (A4				amy Mucky N		LRR K, L)		- American Grand (1991)) (LRR K, L	,
	Stratified Layers (A5)				amy Gleyed) (LRR K, L)
	Depleted Below Dark Thick Dark Surface (A		A11)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	epleted Matrix	10000 200					e (S9) (LRR	
	Sandy Mucky Mineral				edox Dark Su epleted Dark :							2) (LRR K, L, F
	Sandy Mucky Milleral Sandy Gleyed Matrix				edox Depress							19) (MLRA 149 44A, 145, 149
	Sandy Redox (S5)	(04)			edox Depress	sions (Fo)				arent Mate		44A, 145, 149
	Stripped Matrix (S6)			12					LI Kear	arent mate	nai(IFZ)	
	Stripped Matrix (Sb)									hallow Day		TE12)
		RR R, MLF	RA 149B)						☐ Very S		k Surface (T	ΓF12)
	Dark Surface (S7) (LI								☐ Very S ☐ Other	hallow Dar (Explain in	k Surface (T	TF12)
□ ndicators	Dark Surface (S7) (LI s of Hydrophytic vegeta	ation and v		ology mu	ıst be present	t, unless distu	irbed or pre	oblemati	☐ Very S ☐ Other		k Surface (T	ΓF12)
ndicators	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed	ation and v		ology mu	ust be present	t, unless distu	rbed or pro	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
dicators strictiv	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e:	ation and v		ology mu	ust be present	t, unless distu	rbed or pro	-	☐ Very S ☐ Other	(Explain in	k Surface (T	No 🗆
dicators estrictiv Type Dep	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e: th (inches):	ation and v		ology mu	ust be present	t, unless distu	rbed or pro	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
ndicators estrictiv Type Dep	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e:	ation and v		ology mu	ust be present	t, unless distu	irbed or pre	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
ndicators estrictiv Type Dep	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e: th (inches):	ation and v		ology mu	ist be present	t, unless distu	rbed or pre	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
ndicators estrictiv Type Dep	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e: th (inches):	ation and v		ology mu	ist be present	t, unless distu	rbed or pre	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
ndicators estrictiv Type Dep	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e: th (inches):	ation and v		ology mu	ust be present	t, unless distu	irbed or pre	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
ndicators estrictiv Type Dep	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e: th (inches):	ation and v		ology mu	ust be present	t, unless distu	irbed or pre	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
ndicators estrictiv Type Dep	Dark Surface (S7) (Li s of Hydrophytic vegeta re Layer (if observed e: th (inches):	ation and v		ology mu	ist be present	t, unless distu	irbed or pre	-	☐ Very S ☐ Other c.	(Explain in	k Surface (T Remarks)	
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ndicators estrictiv Type Dep	Dark Surface (S7) (LI s of Hydrophytic vegets re Layer (if observed e: th (inches): Soil is regularly plower	ation and v	vetland hydr	3	ist be present	t, unless distu	1	Н	☐ Very S☐ Other	(Explain in	k Surface (T Remarks) Yes ⊠	No 🗆
ndicators estrictiv Type Dep	Dark Surface (S7) (LI s of Hydrophytic vegets re Layer (if observed e: th (inches): Soil is regularly plower	ation and v	vetland hydr	3	ist be present	t, unless distu	1	Н	☐ Very S☐ Other	(Explain in	k Surface (T Remarks)	No 🗆
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ndicators estrictiv Type Dep	Dark Surface (S7) (LI s of Hydrophytic vegets re Layer (if observed e: th (inches): Soil is regularly plower	ation and v	vetland hydr	3	ist be present	t, unless distu	1	Н	☐ Very S☐ Other	(Explain in	k Surface (T Remarks) Yes ⊠	No 🗆
ndicators estrictiv Type Dep	Dark Surface (S7) (LI s of Hydrophytic vegets re Layer (if observed e: th (inches): Soil is regularly plower	ation and v	vetland hydr	3	ist be present	t, unless distu	1	Н	☐ Very S☐ Other	(Explain in	k Surface (T Remarks)	No 🗆
ndicators estrictiv Type Dep	Dark Surface (S7) (LI s of Hydrophytic vegets re Layer (if observed e: th (inches): Soil is regularly plower	ation and v	vetland hydr	3	ist be present			Н	☐ Very S☐ Other	(Explain in	k Surface (T Remarks) Yes ⊠	No 🗆
ndicators estrictiv Type Dep	Dark Surface (S7) (LI s of Hydrophytic vegets re Layer (if observed e: th (inches): Soil is regularly plower	ation and v	vetland hydr	3	ist be present		1	Н	☐ Very S☐ Other	(Explain in	k Surface (T Remarks) Yes ⊠	No 🗆

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: State: WI Sampling Point: 32 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): low terrace/drainageway Local relief (concave, convex, none): none/concave Long: Datum: Soil Map Unit Name: Matherton silt loam (MmA) NWI classification: none No (If no, explain in Remarks) Are climatic/hydrologic conditions on the site typical for this time of year? Yes Are VegetationX, SoilX, or Hydrology ___ _ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 Are Vegetation_ __, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) _, Soil__ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? X Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 13 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) □ Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) ☐ Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \bowtie Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aguitard (D3) \boxtimes Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes Depth (inches): No 🖂 Water Table Present? Depth (inches): 20 Yes 🖂 No Saturation Present? Yes 🛛 No 🗌 Depth (inches): 2 Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Sample site is located within a drainage swale. NRCS slide review shows 10 out of 10 years with wet signatures.

VEGETATION	- Use scientific names of a	olants.
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1	Tree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
2		% Cover		Status	parties not security applications and security and securi
3.	Lightwood and the second of th		3.13	1 1 - 1 - 1	4
Species Across All Strata: 1 (B)	0.11 T-332				1
5.		_	<u> </u>	· · · · · · · ·	
6.		-		_	Opedes Adoss All Strata. 1(b)
Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species x 1 =				_	그래도 그가 되는 이 그래요한 그리고 하다면 되었다면 하는 다른 아이들이 그래요 한 사람이 하는데 하다 하는데 하다 하는데
Sapling/Shrub Stratum (Plot size: 30' radius) Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines greater than 3.28 ft in height Sapling/Shrub Woody Vines Greater than 3.28 ft in height Sapling/Shrub Woody Vines Greater than 3.28 ft in height Sapling/Shrub Woody Vines Greater than 3.28 ft in height Sapling/Shrub Woody Vines Greater than 3.28 ft in height Sapling/Shrub Woody Vines Greater than 3.28 ft in height Sapling/Shrub Woody Vines Greater than		-	<u> </u>	T. 2	77. 7
Sapling/Shrub Stratum (Plot size: 30' radius) OBL species x 1 = FACW species x 2 = FACW species x 2 = FACW species x 3 = FACW species x 3 = FACW species x 4 = FACW species x 5 = FACW species x 4 = FACW species x 5	7,			: 	Prevalence Index worksheet:
1.	ii 5	0	= Total Cov	er	Total % Cover of: Multiply by:
2.	Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
2	1.:	1 - 2	口		FACW species x 2 =
3.	2				CELLS.
4.	Ŭ				
5	The state of the s	50	<u> </u>		
6.			03=33		
Total Cover	137	A70			
Paper Pap	ACCURATION OF			(C.)	
Herb Stratum (Plot size: 5' radius) 1. Glycine max (harvested) 2		0			Rapid Test for Hydrophytic Vegetation
1. Glycine max (harvested) 2	Hark Charles (Blataine El andia)	ū	= Total Cov	er	
Career		F0	1521	KIII:	
2	Note that the second of the se	50		NI	data in Remarks or on a separate sheet)
4				_	☑ Problematic Hydrophytic Vegetation¹ (Explain)
Be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: 30' radius) Subject 1 miles 2 miles 2 miles 2 miles 2 miles 3 miles 2 miles 3 miles	3				1 Indicators of hydric soil and wetland hydrology must
5	4	-		_	
6	5				
7				300-3	Definitions of Vegetation Strata:
8	7.				Trae - Woody plants 3in (7.6 cm) or more in diameter
9		\		-	
10		4-14			S W N S S S
11				_	
12		-			and greater than 3.26 ft (1 m) tall.
Moody Vine Stratum (Plot size: 30' radius) 50	() () () () () () () () () ()			9.75	
Woody Vine Stratum (Plot size: 30' radius) Woody vines — All woody vines greater than 3.28 ft in height 1	12				of size, and woody plants less than 3.28 ft tall.
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2	Woody Vine Stratum (Plot size: 30' radius)				
3 Hydrophytic	1				8
	2				N N
	3				Hydrophytic
4 Vegetation	4	×		-	Vegetation
0 = Total Cover Present? Yes □ No ☒		<u>o</u>	= Total Cov	er	Present? Yes ☐ No ☒
max. Wetland determination made based on indicators of hydric solls and wetland hydrology. Atypical (farmed) wetland. Photo 35.					
© VICEN CONTROL NO STATE OF ST					
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					10
	6				S
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Depth	Matrix				Redox Feat	tures				-			
(inches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²		Textu	ire		Re	emarks
0-14	10YR 2/1	100						Silty o	lay loam			5)	
14-18	2.5Y 4/1	100	10YR 4/6		m/p	С	М	Clay					
18-22	5Y 4/1	100	7.5YR 5/8	3	m/p	С	M	Clay		3		1.5	
			(S-10-1)				(i) =	8 +	1				
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			100										
1									0.				
	Concentration, D=De il Indicators:	pletion, RM	/I=Reduced	Matrix, C	S=Covered o	r Coated Sa	nd Grains	- 1				ining, M=Ma ic Hydric S	
The second secon	Histosol (A1)			□ Po	olyvalue Belo	w Surface (S	8) (LRR R						MLRA 149B)
	Histic Epipedon (A2)				MLRA 149								LR K, L, R)
7.5	Black Histic (A3)	=		20100 100	nin Dark Surfa			NO THE CASE OF THE PARTY OF THE) (LLR K, L, R)
	Hydrogen Sulfide (A4 Stratified Layers (A5)				eamy Mucky I eamy Gleyed		(LRR K, L)		Technology ((LRR K, L)	
	Depleted Below Dark		A11)		epleted Matrix							(S9) (LRR	(LRR K, L) K. L)
	Thick Dark Surface (edox Dark Su								2) (LRR K, L, R)
	Sandy Mucky Minera			1000	epleted Dark	ALC: ARREST			(A) (A) (A) (A) (A)		20 UNION		19) (MLRA 149B)
	Sandy Gleyed Matrix Sandy Redox (S5)	(S4)		☐ Re	edox Depress	sions (F8)							44A, 145, 149B)
V. 100.00	Stripped Matrix (S6)								A COLUMN TO SOME	ed Paren		al (TF2) : Surface (T	F12)
	Dark Surface (S7) (L	RR R, MLF	RA 149B)							ther (Exp			
(2015)													
3.	1200 E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									North America			
	of Hydrophytic veget		vetland hyd	rology mu	ıst be presen	t, unless dist	urbed or pr	roblemat		Stellar Marian			1
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Restrictive Type	e Layer (if observed		vetland hyd	rology mu	ist be presen	t, unless dist	urbed or pr		tic.	oil Prese		Yes ⊠	No 🗆
Restrictive Type Dept	e Layer (if observed	i):	vetland hyd	rology mu	ust be presen	t, unless dist	urbed or pr		tic.				No 🗆
Restrictive Type Dept	e Layer (if observed b: th (inches):	i):	vetland hyd	rology mu	ust be presen	t, unless dist	turbed or pr		tic.				No 🗆
Restrictive Type Dept	e Layer (if observed b: th (inches):	i):	wetland hyd	rology mu	ust be presen	t, unless dist	urbed or pr		tic.				No 🗆
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Restrictive Type Dept	e Layer (if observed b: th (inches):	i):	vetland hyd	rology mu	ist be presen	t, unless dist	turbed or pr		tic.				No 🗆
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Restrictive Type Dept	e Layer (if observed b: th (inches):	i): ed.	3 =	rology mu	ist be presen		turbed or pr	P	lic. Hydric S	oil Prese	nt?	Yes ⊠	
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Restrictive Type Dept	e Layer (if observed b: th (inches):	i): ed.	3 =	rology mu	ist be presen			P	lic.	oil Prese	nt?	Yes ⊠	
Restrictive Type Dept	e Layer (if observed b: th (inches):	i): ed.	3 =	rology mu	ist be presen			P	lic.	oil Prese	nt?	Yes ⊠	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: City and Town of Waukesha, Waukesha County Project/Site: STH 59 West Bypass Sampling Date: 11/15/2011 Applicant/Owner: State: WI Sampling Point: 33 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 2-6% Long: Datum: Soil Map Unit Name: Casco sandy loam (CeB) Wd NWI classification: none Yes ☐ No ☒ (If no, explain in Remarks) Are climatic/hydrologic conditions on the site typical for this time of year? Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 Are Vegetation____, Soil__ ____, or Hydrology ___ __naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No. If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) П Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) \Box Field Observations: Surface Water Present? Yes 🗌 No 🛛 Depth (inches): Water Table Present? Yes 🗌 No 🛛 Depth (inches): _ Saturation Present? Yes 🗌 No 🛛 Depth (inches): Wetland Hydrology Present? No 🖂 Yes | (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

VEGETATION – Use scientific names of plants.				Sampling Point: 33
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1			3.33333	Number of Dominant Species
2		П	. —	That are OBL, FACW, or FAC: 0 (A)
3	10			T-1-1 N 1 1 1
		100		Total Number of Dominant Species Across All Strata: 1 (B)
4			-	
5			-,	Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
6	· —	П		
7		П	_	Prevalence Index worksheet:
	<u>O</u>	= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x1 =
1		П	1	FACW species x 2 =
2		П		FAC species x 3 =
3				
4	N=====	_		FACU species x 4 =
		9 🖁	10-7	UPL species x 5 =
5	-	무	-	Column Totals: (A) (B)
6				Prevalence Index = B/A =
7	4 17 19		-	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	<u>0</u>	= Total Cove	r	Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0¹
1. Glycine max (harvested)	<u>50</u>	\boxtimes	NI	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
2				Problematic Hydrophytic Vegetation¹ (Explain)
3	(To
4			3	1 Indicators of hydric soil and wetland hydrology must
5	,		1 1 - 	Be present, unless disturbed or problematic.
	-	<u> </u>		Definitions of Vegetation Strata:
6	-			
7				Tree – Woody plants 3in. (7.6 cm) or more in diameter
8	-	П	_	at breast height (DBH), regardless of height
9			_	Sapling/shrub - Woody plants less than 3in. DBH
10		\Box		and greater than 3.28 ft (1 m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
12	-	- П		of size, and woody plants less than 3.28 ft tall.
	50	= Total Cove	er	(and the Debug Associated and the Second Sec
Woody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in height
1				neight
2		F	-	
2		=	5 7 3	
3				Hydrophytic
4		Щ		Vegetation Present? Yes □ No ⊠
Remarks: (include photo number here or on a separate sheet	<u>0</u>	= Total Cove		
Remarks. (include prioto number here of on a separate sneet	.) Agricultura	ii iieia. Photo 36		
	×.			
*				370

Depth	Matrix			- 1	edox Fea	tures								
(inches)	Color (moist)	%	Color (me		%	Type ¹	Loc ²		Tex	ture		R	emarks	
)-12	10YR 3/2	100	, 00.01 (111	-				Clay	1112000	turo	-	100	лпагка	
2-16	10YR 3/3	100		-		-			y silt loa					
	10113/3							Sand	y siit ioa	atri .	D. f.			15-15-
6							5-0-5	-			Refu	sai		
		<u> </u>					-		-	9				
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					1		200							
							Re-						- 7	
	V. 										_			
						7	-				700			
	8					-	-			-			-	-
Type: C=0	Concentration, D=D	epletion, RM=	Reduced Ma	atrix. CS=	Covered o	or Coated Sa	nd Grains		21.00	cation: PL=	Pore Lin	ing M=M	atriv	
	il Indicators:					or obliton on	na Granio			ors for Pro				
	Histosol (A1)		[☐ Polyv	alue Belo	w Surface (S	8) (LRR F			2 cm Muck				149B)
	Histic Epipedon (A2	2)		N	VILRA 149	9B)				Coast Prair	ie Redox	(A16) (LI	LR K, L	., R)
	Black Histic (A3)	2000	92			ace (S9) (LR				5 cm Muck				K, L, R)
	Hydrogen Sulfide (A Stratified Layers (A		30			Mineral (F1)	(LRR K, L	-)		Dark Surfac				
	Depleted Below Da				ny Gleyed eted Matri	Matrix (F2)				Polyvalue E Thin Dark S				K, L)
	Thick Dark Surface		200			urface (F6)				Iron-Manga				K I B
	Sandy Mucky Mine					Surface (F7)				Piedmont F				
	Sandy Gleyed Matr		1	☐ Redo	x Depres	sions (F8)				Mesic Spoo	lic (TA6)	(MLRA 1	44A, 14	45, 149B
	Sandy Gleyed Matr Sandy Redox (S5)	ix (S4)	I	☐ Redo	x Depres	sions (F8)				Mesic Spoo Red Parent			44A, 14	45, 149B)
	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6	ix (S4)		☐ Redo	x Depres	sions (F8)				Red Parent Very Shallo	: Material w Dark \$	l (TF2) Surface (T	5. 	45, 149B
	Sandy Gleyed Matr Sandy Redox (S5)	ix (S4)		☐ Redo	x Depres	sions (F8)				Red Parent	: Material w Dark \$	l (TF2) Surface (T	5. 	45, 149B
	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) (ix (S4)) LRR R, MLRA	149B)		87	120 12	ushed or ve	roblem e		Red Parent Very Shallo	: Material w Dark \$	l (TF2) Surface (T	5. 	45, 149B
Indicators	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg	ix (S4)) LRR R, MLRA etation and we	149B)		87	120 12	urbed or p	oroblema		Red Parent Very Shallo	: Material w Dark \$	l (TF2) Surface (T	5. 	45, 149B)
Indicators	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) (ix (S4)) LRR R, MLRA etation and we	149B)		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo	Material w Dark S ain in Re	l (TF2) Surface (T	5. 	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of Hydrophytic veg a Layer (if observe EROck/gravel/sand	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
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Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	
Indicators Restrictive Type Depti	Sandy Gleyed Matr Sandy Redox (S5) Stripped Matrix (S6 Dark Surface (S7) of of Hydrophytic veg Layer (if observe Rock/gravel/sand h (inches): 16	ix (S4)) LRR R, MLRA etation and we ed):	A 149B) tland hydrolo		87	120 12	urbed or p		tic.	Red Parent Very Shallo Other (Expl	Material w Dark S ain in Re	I (TF2) Surface (T emarks)	F12)	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: Sampling Point: 34 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SW 1/4 Section 8, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 0-2% Long: Datum: Soil Map Unit Name: Warsaw loam (WeA) Wd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology ____ _ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation____, Soil__ ___, or Hydrology ___ __ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No **⊠**Yes within a Wetland? Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠Yes** □No If yes, optional Wetland Site ID: PCA No. 13 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) □ Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) ☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 Depth (inches): Water Table Present? Yes 🛛 Depth (inches): 21 No \square Saturation Present? Yes 🛛 No 🗆 Depth (inches): 0 (at surface) Wetland Hydrology Present? No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soils saturated at the surface.

١	/EGET	ATION	- Use scientific names of	nlante
٠,	LGEI	ALION	- Use scientific names of	DIMINIS

Tree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
	% Cover	Species?	Status	Parameter and an appropriate control of the control
1		무	-	Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
2		_		marare obe, then, other
3			-	Total Number of Dominant
4		П	-	Species Across All Strata: 1 (B)
5	_			Percent of Dominant Species
6		口	_	That Are OBL, FACW, or FAC: 100 (A/B)
7		口		Prevalence Index worksheet:
Million Addr. A. M. Million Addr.	0	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
The state of the s		П		1
1.—			7 3	FACW species x 2 =
2			_	FAC species x 3 =
3	-			FACU species x 4 =
4		П		UPL species x 5 =
5	-			Column Totals: (A) (B)
6		\Box		Prevalence Index = B/A =
7	-	\Box		Hydrophytic Vegetation Indicators:
¥	<u> 0</u>	= Total Cove	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				Prevalence Index is =3.01
Phalaris arundinacea (cut)	100		FACW	☐ Morphological Adaptations¹ (Provide supporting
2. Setaria glauca (cut)	2		FAC	data in Remarks or on a separate sheet)
3	_			☐ Problematic Hydrophytic Vegetation¹ (Explain)
	7			1 Indicators of hydric soil and wetland hydrology must
4				Be present, unless disturbed or problematic.
5		П	_	
6				Definitions of Vegetation Strata:
7				Tree – Woody plants 3in. (7.6 cm) or more in diameter
8	-	ш -		at breast height (DBH), regardless of height
9		\Box		Sapling/shrub – Woody plants less than 3in. DBH
10				and greater than 3.28 ft (1 m) tall.
11				1500 of the same o
12				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
	102	= Total Cove		of size, and woody plants less than 5.26 it tall.
Woody Vine Stratum (Plot size: 30' radius)	102	- Total Cove	31	Woody vines - All woody vines greater than 3.28 ft in
				height
1	-	므		
2		ш		
3				Hydrophytic
4	-	\Box		Vegetation
	<u>0</u>	= Total Cove		Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate shee	t.) Recently c	ut fresh (wet) m	eadow. Phot	to 37.
3				
2				
- U				
g 9 05				
, , , , , , , , , , , , , , , , , , ,				
E '				

Depth	Matrix				Redox Fea	tures					
peptin nches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	- ·	exture	D.	emarks
0	7.5YR 2.5/1	75		(moist)	/0		LOC	Total Control of the	_	- Re	andika
			+					Silty clay I	oam		
04	7.5YR 3/1	25				<u>- 2</u>					
21	10YR 3/2	100	10YR 3/1		c/f	D	M	Silty clay I	oam		
25	7.5YR 3/2	100	1					Sand			
				- 5							
				1.0							
		- E						7			
					×						
								V)			
			-		-						7
		-				-		-			
pe: C=0	Concentration, D=Depl	etion, RM	=Reduced	Matrix, CS	S=Covered o	or Coated Sa	nd Grains	2	Location: PL=Po	ore Lining, M=M	atrix
	il Indicators:								ators for Proble		
	Histosol (A1)		3 X	☐ Po		w Surface (S	8) (LRR R,		2 cm Muck (A	10) (LRR K, L,	MLRA 149B)
	Histic Epipedon (A2)				MLRA 149	Control of the contro				Redox (A16) (L	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
	Black Histic (A3)					ace (S9) (LR		CONTRACTOR OF THE STATE OF THE	다리 - 경기의 시간 시간 시간 시간 전 전 시간) (LLR K, L, R)
	Hydrogen Sulfide (A4) Stratified Layers (A5)				amy Mucky amy Gleyed	Mineral (F1)	(LRR K, L)		프레이트 전 성으로 사이 열 수 있는 것이 되었다. 하게 되었다.	(S7) (LRR K, L ow Surface (S8	
	Depleted Below Dark S	Surface (A	(11)	2000	pleted Matri				그리는 이번 그렇게 5000 하이 아이라는 중요하다니다.	face (S9) (LRR	
	Thick Dark Surface (A		16.65		dox Dark Su			Ē			2) (LRR K, L, R
	Sandy Mucky Mineral			☐ De	pleted Dark	Surface (F7)					19) (MLRA 149)
				-	161 1255				1 14-1-0-1	(TAC) (MILDA 4	
	Sandy Gleyed Matrix (S4)		☐ Re	dox Depres	sions (F8)		, L	J Mesic Spodic	(TAO) (MLRA 1	44A, 145, 149E
	Sandy Redox (S5)	S4)		☐ Re	dox Depres	sions (F8)			Red Parent M	aterial (TF2)	
	Sandy Redox (S5) Stripped Matrix (S6)			☐ Re	dox Depres	sions (F8)			Red Parent Mallow I	aterial (TF2) Dark Surface (T	44A, 145, 149 B
	Sandy Redox (S5)		RA 149B)	☐ Re	dox Depres	sions (F8)			Red Parent M	aterial (TF2) Dark Surface (T	
	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR	R R, MLR			* *		urbed or pro	oblematic.	Red Parent Mallow I	aterial (TF2) Dark Surface (T	
dicators	Sandy Redox (S5) Stripped Matrix (S6)	R R, MLR			* *		urbed or pro	oblematic.	Red Parent Mallow I	aterial (TF2) Dark Surface (T	
dicators	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetat e Layer (if observed):	R R, MLR			* *		urbed or pro		Red Parent M. Very Shallow I Other (Explain	aterial (TF2) Dark Surface (T in Remarks)	F12)
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
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dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
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dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
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dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
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dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LR of Hydrophytic vegetate Layer (if observed): .: h (inches):	R R, MLF tion and w	etland hyd	rology mu	st be presen	nt, unless dist		Hydr	Red Parent M. Very Shallow Other (Explain	aterial (TF2) Dark Surface (T i in Remarks) Yes Yes	No 🗆

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: State: WI Sampling Point: 35 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-4% Long: Datum: Soil Map Unit Name: Lamartine silt loam (LmB) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 Are Vegetation___ __, Soil____, or Hydrology (If, needed, explain any answers in Remarks.) naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) ☐ Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) ☐ High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) ☐ Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) ☐ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) \Box Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes No 🛛 Depth (inches): Saturation Present? Yes No 🛛 Depth (inches): Wetland Hydrology Present? Yes 🗌 No 🖾 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

	Absolute	Dominant	Indicator	
ree Stratum (Plot size: 30' radius)	Absolute <u>% Cover</u>	Dominant Species?	Indicator Status	Dominance Test worksheet:
		П		Number of Dominant Species
· · · · · · · · · · · · · · · · · · ·				That are OBL, FACW, or FAC: 0 (A)
		\Box		Total Number of Dominant
		- 🗆		Species Across All Strata: 1 (B)
	-			Percent of Dominant Species
			_	That Are OBL, FACW, or FAC: 0 (A/B)
			-	Prevalence Index worksheet:
_				080 820302, 207 - 20 - 907 305 31-945
	0	= Total Cove	r	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 30' radius)	3			OBL species x 1 =
-		ロ		FACW species x 2 =
1		\Box		FAC species x3 =
			1	AND THE STREET
	-			UPL species x 5 =
		720.20		Column Totals: (A) (
		П		Prevalence Index = B/A =
			— .	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	<u>0</u>	= Total Cove	r	☐ Dominance Test is >50%
erb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0 ¹
Glycine max (harvested)	50	\boxtimes	NI	☐ Morphological Adaptations¹ (Provide supporting
	1		25-25	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
<u> </u>				Problematic Hydrophytic Vegetation (Explain)
	3 11 /	000 00		1 Indicators of hydric soil and wetland hydrology mus
	-	П		Be present, unless disturbed or problematic.
		Д		
				Definitions of Vegetation Strata:
				Tree – Woody plants 3in. (7.6 cm) or more in diamet
<u> </u>		П		at breast height (DBH), regardless of height
)		_		Sapling/shrub – Woody plants less than 3in. DBH
		Η	-	and greater than 3.28 ft (1 m) tall.
l			_	Herb All herbaceous (non-woody) plants, regardle
2		П	4	of size, and woody plants less than 3.28 ft tall.
	<u>50</u>	= Total Cove	r	Wasterland Allert Allert and a 200 ft
oody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft height
				in a grid
		П	-	
			G	
		프		Hydrophytic
		ш		Vegetation Present? Yes
	<u>0</u>	= Total Cove	r	Present? Yes No 🖂
emarks: (include photo number here or on a separate shee	t.) Agricultura	l field. Photo 38		
				- 1 - 12
		N		391

Depth	Matrix			Redox Fe	eatures					
inches)	Color (moist)	%	Color (mois	st) %	Type ¹	Loc ²	Textu	ire	F	temarks
12	10YR 3/2	100					Silty clay loam	-		Programme Company
-20	10YR 4/4	100					Clay			
	- 1077111						oldy			
							-		35.11	
	4 75			L		and serious p				
									1	
	-									
				1 1 1 1 1 1 1 1 1						
	4									
-		DIA					2,			
	=Concentration, D=Dep oil Indicators:	letion, RM=	Reduced Matr	ix, CS=Covered	or Coated Sa	nd Grains		ntion: PL=Pore		
	Histosol (A1)			l Polyaduo Re	elow Surface (S	0\ /I DD D		s for Problem		Solis*: , MLRA 149B)
H	Histic Epipedon (A2)			MLRA 1		(LINK K)		oast Prairie Re		
	Black Histic (A3)				urface (S9) (LR	R R, MLRA 1				3) (LLR K, L, R)
	Hydrogen Sulfide (A4)			y Mineral (F1)			ark Surface (S		
	Stratified Layers (A5)			Loamy Gleye	ed Matrix (F2)		□ P	olyvalue Belov	Surface (S	B) (LRR K, L)
	Depleted Below Dark	753 Yes	1)	Depleted Ma				hin Dark Surfa		
	Thick Dark Surface (A									12) (LRR K, L, R
	Sandy Mucky Mineral				rk Surface (F7)					19) (MLRA 149
	Sandy Gleyed Matrix	(S4)		Redox Depre	essions (F8)			lesic Spodic (T	A6) (MLRA	144A, 145, 149E
									!-! (TEO)	
	Sandy Redox (S5) Stripped Matrix (S6)							ed Parent Mat		TF12)
	Stripped Matrix (S6)	RR R, MLRA	A 149B)					ed Parent Mat ery Shallow Da	ark Surface (TF12)
		RR R, MLRA	A 149B)		i d			ed Parent Mat	ark Surface (TF12)
ndicator	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta	ition and we		ly must be pres	ent, unless dist	urbed or prob		ed Parent Mat ery Shallow Da	ark Surface (TF12)
dicator	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed)	ition and we		y must be pres	ent, unless dist	urbed or prob		ed Parent Mat ery Shallow Da	ark Surface (TF12)
dicators	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e:	ition and we		y must be pres	ent, unless dist	urbed or prob	lematic.	ed Parent Mat ery Shallow Da	ark Surface (TF12)
dicators strictiv Typ Dep	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e: sth (inches):	ation and we	tland hydrolog	y must be pres	ent, unless dist	urbed or prob	lematic.	ed Parent Mat ery Shallow Da ether (Explain in	ark Surface (n Remarks)	
dicators strictiv Typ Dep	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e:	ation and we	tland hydrolog	y must be pres	ent, unless dist	urbed or prob	lematic.	ed Parent Mat ery Shallow Da ether (Explain in	ark Surface (n Remarks)	
dicators strictiv Typ Dep	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e: sth (inches):	ation and we	tland hydrolog	y must be pres	ent, unless dist	urbed or prob	lematic.	ed Parent Mat ery Shallow Da ether (Explain in	ark Surface (n Remarks)	
dicators estrictiv Typ Dep	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e: sth (inches):	ation and we	tland hydrolog	y must be pres	ent, unless dist	urbed or prob	lematic.	ed Parent Mat ery Shallow Da ether (Explain in	ark Surface (n Remarks)	
dicators estrictiv Typ Dep	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e: sth (inches):	ation and we	tland hydrolog	y must be pres	ent, unless dist	urbed or prob	lematic.	ed Parent Mat ery Shallow Da ether (Explain in	ark Surface (n Remarks)	
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dicators estrictiv Typ Dep	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e: sth (inches):	ation and we	tland hydrolog	y must be pres	ent, unless dist	d	lematic.	ed Parent Mat ery Shallow Da ether (Explain in	ark Surface (n Remarks)	
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dicators strictiv Typ Dep	Stripped Matrix (S6) Dark Surface (S7) (LF s of Hydrophytic vegeta ve Layer (if observed) e: sth (inches):	ation and we	tland hydrolog	y must be pres	ent, unless dist	d	lematic.	ed Parent Mat ery Shallow Da ether (Explain in	ark Surface (n Remarks)	
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/15/2011 Applicant/Owner: State: WI Sampling Point: 36 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Long: Datum: Soil Map Unit Name: Matherton silt loam (MmA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation (If, needed, explain any answers in Remarks.) _, Soil__ __, or Hydrology ____ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? X Yes □ No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 13 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Sample taken just inside wetland boundary. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) □ Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) ☐ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes Depth (inches): No \boxtimes Saturation Present? Yes 🛛 No Depth (inches): 13 Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: NRCS slide review shows 10 out of 10 years with wet signatures. In conversation with the farmer, he indicated that this area and several other areas in ag field were wet.

EGETATION – Use scientific names of plants.	Absolute	Dominant	Indicator	Sampling Point: 3	20
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:	
• —				Number of Dominant Species	
		\Box		That are OBL, FACW, or FAC: 0 (A)	
. <u></u>				Total Number of Dominant	
				Species Across All Strata: 1 (B)	
	1 1			Percent of Dominant Species	
5		П	-	That Are OBL, FACW, or FAC: 0 (A/B)	
(. <u></u>		П		Prevalence Index worksheet:	
	0	= Total Cov	er	Total % Cover of: Multiply	by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =	
·		\Box		FACW species x 2 =	
2			· ·	FAC species x 3 =	
3	-	П		FACU species x 4 =	
1	100000		_	UPL species x 5 =	
	· ·	П		Column Totals: (A)	(
<u> </u>		\Box		Prevalence Index = B/A =	
		\Box		Hydrophytic Vegetation Indicators:	
doub Steet up (Diet eine Standing)	<u>0</u>	= Total Cov	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%	
Herb Stratum (Plot size: 5' radius)	50	⋈	NI	☐ Prevalence Index is =3.0¹ ☐ Morphological Adaptations¹ (Provide sup	porting
. Glycine max (harvested)	<u>50</u>		101	data in Remarks or on a separate sh	neet)
	-				(plain)
3				1 Indicators of hydric soil and wetland hydrol	ogy mu
. <u> </u>	_	. 🗆		Be present, unless disturbed or problematic.	
5		П	_		
<u> </u>			2	Definitions of Vegetation Strata:	
·		П		Tree - Woody plants 3in. (7.6 cm) or more in	n diame
		П		at breast height (DBH), regardless of height	
)				Sapling/shrub - Woody plants less than 3ir	. DBH
0				and greater than 3.28 ft (1 m) tall.	
1			-	Herb – All herbaceous (non-woody) plants, r	enardle
2			-	of size, and woody plants less than 3.28 ft ta	
	<u>50</u>	= Total Cov	er	Woody vines - All woody vines creates the	2 20 4
Voody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than height	1 3.28 T
<u> </u>	·	П	-	is constituted at \$100.	
2		\Box			
3	1 2-1		9	Hydrophytic	

Remarks: (include photo number here or on a separate sheet.) Problematic vegetation due to a long term managed plant community area consisting of glycine max. Wetland determination made based on indicators of hydric soils and wetland hydrology. Atypical (farmed) wetland. Photo 39.

0

П

= Total Cover

Vegetation Present?

Yes 🗌

No 🖂

-	-	

		o the dep	oth needed to t			min the c	bsence (of indicators.)		
Depth	Matrix			Redox Fea	CONTRACTOR OF THE PARTY OF THE					
(inches)	Color (moist)	%	Color (mo	ist) %	Type ¹	Loc ²	1 0	Texture	Re	emarks
0-17	10YR 2/1	100				Na	Silty cla	ay loam		
17-23	2.5Y 4/2	100	10YR 4/6	m/p	С	M	Clay			
								- V		j.
		3 111				-	0 0			
		-								
	-		-							17/2-1-
					-	-	-			
	· · · · · · · · · · · · · · · · · · ·		-			-	(
			· —			_				
	. — — — — —									
100-1-100										
-										2
										i i
-										
	Concentration, D=Deple	etion, RA	/I=Reduced Mat	trix, CS=Covered	or Coated Sai	nd Grains		² Location: PL=Por		
	il Indicators: Histosol (A1)			7 Debeselve Del	Cf (C	0) // DD D		dicators for Problem		
	Histic Epipedon (A2)		-	Polyvalue Bel MLRA 14		8) (LKK K,		☐ 2 cm Muck (A1☐ Coast Prairie R	0) (LRR K, L,	MLRA 149B)
	Black Histic (A3)					RR MLRA	(149B)	5 cm Mucky Pe		
	Hydrogen Sulfide (A4)		Ē				,	☐ Dark Surface (\$		
	Stratified Layers (A5)					***************************************		☐ Polyvalue Belo		
0.00	Depleted Below Dark S		A11)	Depleted Matr				☐ Thin Dark Surfa		
	Thick Dark Surface (A1			Redox Dark S						2) (LRR K, L, R)
	Sandy Mucky Mineral (Sandy Gleyed Matrix (-	55 (2014 (A1)) (700)	14					19) (MLRA 149B)
	Sandy Redox (S5)	34)		Redox Depres	sions (F6)			Red Parent Ma		44A, 145, 149B)
	Stripped Matrix (S6)							☐ Very Shallow D		F12)
	Dark Surface (S7) (LR)	R R, MLI	RA 149B)					Other (Explain		3
3										
	of Hydrophytic vegetate e Layer (if observed):		vetland hydrolog	gy must be prese	nt, unless dist	urbed or pr	oblemation	0.		Y
Type										
- 1010								Oterstand Call Date and Call	V 17	No. II
							н	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):		1			e :	н	ydric Soil Present?	Yes ⊠	No 🗆
			1			E	Н	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):		1	j.	7.4540	0 1	Н	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):					E :	Н	ydric Soil Present?	Yes 🏻	No 🗆
	th (inches):		3			e i	- H	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):		3	i		e 1	- H	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):		3		7	e 1	- Н	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):		3	1	7		н	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):				-	e '	H	ydric Soil Present?	Yes ⊠	No 🗆
	th (inches):					E	H		1 A	#
	th (inches):						2 H	ydric Soil Present?	1 A	#
	th (inches):					e :			1 A	#
	th (inches):					e				
	th (inches):			2					1 A	
	th (inches):									
	th (inches):									
	th (inches):									
	th (inches):									
	th (inches):									
	th (inches):									
	th (inches):									
	th (inches): Soil is regularly plowed.					er t				
	th (inches):					er t				

WETLAN	ID DETERM	MINATION DATA	FORM - Northo	entral and Northeast	Region
Project/Site: STH 59 West Bypass				esha, Waukesha County	Sampling Date: 11/15/2011
Applicant/Owner:				State: WI	Sampling Point: 37
Investigator(s): Donald M. Reed, Ph	D., SEWRPC	S	ection, Township, Rang	e: SE 1/4 Section 7, T6N, R19	1007 B 100 B 10 B 10 B 10 B 10 B 10 B 10
Landform (hillslope, terrace, etc.): lo			ocal relief (concave, cor		
19.50 - 19.10 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50 19.50		Long:			Datum:
Soil Map Unit Name: Matherton silt I	5			NWI cla	assification: F0Kf
Are climatic/hydrologic conditions on	and the contract of the Contra		Yes ☐ No ☒	(If no, explain in Remarks)	1014
Are VegetationX, SoilX, or Hydrology				umstances" present? Yes ⊠	No 🗆
Are Vegetation, Soil, or		***		in any answers in Remarks.)	
SUMMARY OF FINDINGS -	The state of the s		Secretary and the second section of the second section of the second sec	A STANDARD BUT AND STANDARD AND A ST	ent factures at a
SOMMART OF FINDINGS =	Attach Site i	nap snowing san	iping point locati	ons, transects, importa	ant reatures, etc.
	4223	<u>v=0</u> 530			
Hydrophytic Vegetation Present?	□Yes	⊠No	Is the Sampled Are within a Wetland?	oa ⊠ Yes	□No
Hydric Soils Present?	⊠Yes	□No	within a wetland r	⊠ res	Пио
Wetland Hydrology Present?	⊠Yes	□No	11	VADA DAY DAYARAYAR BARKA	
				and Site ID: PCA No. 13	
Remarks: (Explain alternative proc agricultural land management activ					bed vegetation and soils due to
				v .	
PRELIMINARY DETERMINATION	CONDUCTED	OUTSIDE GROWING S	SEASON.		
		oriolog oriorimito c	ZZ/10011.		
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one	s is required; che	eck all that apply)		☐ Surface So	oil Cracks (B6)
☐ Surface Water (A1)		□ Metes Ctele	-d (DO)		
			ed Leaves (B9)		atterns (B10)
High Water Table (A2)		Aquatic Fau	ına (B13)	Moss Trim	Lines (B16)
☐ Saturation (A3)		☐ Marl Depos	its (B15)	□ Dry-Seaso	n Water Table (C2)
☐ Water marks (B1)		☐ Hydrogen S	Sulfide Odor (C1)	☐ Crayfish B	urrows (C8)
Sediment Deposits (B2)					
			nizospheres on Living R		Visible on Aerial Imagery (C9)
Drift Deposits (B3)		Presence o	f Reduced Iron (C4)	Stunted or	Stressed Plants (D1)
Algal Mat or Crust (B4)		Recent Iron	Reduction in Tilled Soil	ls (C6) 🛛 Geomorph	ic Position (D2)
☐ Iron Deposits (B5)		☐ Thin Muck S	Surface (C7)	☐ Shallow Ad	guitard (D3)
☑ Inundation Visible on Ae	rial Imagery (B7		ain in Remarks)		raphic Relief (D4)
The state of the s		i 	ant in tronia inoy		
☐ Sparsely Vegetated Con Field Observations:	cave Surface (B	(8)		☐ FAC-Neutr	al Test (D5)
		2 4 5 1		F1	
Surface Water Present? Yes		Depth (inches):	•		
Water Table Present? Yes	□ No ⊠	Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	⊠ No □	Depth (inches): 14.5		Wetland Hydrology Presen	t? Yes⊠ No □
Describe Recorded Data (stream g	auge, monitoring	well, aerial photos, pr	evious inspections), if a	vailable:	
1 26 22	. 00			SMOSSY (2027)	
Remarks: NRCS slide review indic	ates that this are	ea has 10 out of 10 yea	rs with wet signatures.		
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T. C.					
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1	/ECET	ATION	- Use scientific names of plants
١	/EGEI	AHON	 Use scientific names of plants.

	Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Indic Species? Sta	
2		70 COVEL	AND THE RESIDENCE OF THE PARTY	
3		i and		**
				758 W 600k 21 29465 N E
Percent of Dominant Species		-		- TO BE THE STANDARD OF STANDARD AND AND AND AND AND AND AND AND AND AN
6.				
Prevalence Index worksheet:		1		
Saplino/Shrub Stratum (Plot size: 30' radius)		7		-4 <u> </u>
Sapiling/Shrub Stratum (Plot size: 30' radius)	7	-	П _	Prevalence Index worksheet:
FACW species		0	= Total Cover	Total % Cover of: Multiply by:
	Sapling/Shrub Stratum (Plot size: 30' radius)			OBL species x 1 =
	1		. П	FACW species x 2 =
Section Sec				
5.		-		
6.		2 36		
Berb Stratum (Plot size; 5' radius)				
Dominance Test is 560% Prevalence Index is =3.0¹ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain) Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants disturbed or problematic. Problematic Hydrophytic Vegetation Strata: Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height Problematic Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height Hydrophytic Vegetation Present? Yes No No No No No No No N	<i>/</i>			
1. Givcine max (harvested) 2		0	= Total Cover	☐ Dominance Test is >50%
data in Remarks or on a separate sheet) 2.	Herb Stratum (Plot size: 5' radius)		= .	Manufalasiasi Adastatias 1/Dassida assaudias
2.		<u>50</u>		
A	2		П —	
## Be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height	3	-		
5	4.			
6			П	Do protoni, ando distance of protoniates.
Tree - Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height 9				Definitions of Vegetation Strata:
8 at breast height (DBH), regardless of height 9 Sapling/shrub – Woody plants less than 3in. DBH 10				
9 Sapling/shrub - Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall. 11		-		
10 and greater than 3.28 ft (1 m) tall. 11 All herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. 12 Description of size is 30' radius) 13 All woody vines greater than 3.28 ft tall. 14 Description of size is 30' radius) 15 All woody vines greater than 3.28 ft in height 16 Description of size, and woody plants less than 3.28 ft tall. 17 Description of size, and woody vines greater than 3.28 ft in height 18 Description of size, and woody vines greater than 3.28 ft in height 19 Description of size, and woody vines greater than 3.28 ft in height 19 Description of size, and woody plants less than 3.28 ft tall. 19 Description of size, and woody vines greater than 3.28 ft in height 19 Description of size, and woody vines greater than 3.28 ft in height 19 Description of size, and woody vines greater than 3.28 ft in height 19 Description of size, and woody plants less than 3.28 ft tall. 19 Description of size, and woody plants less than 3.28 ft tall. 19 Description of size, and woody plants less than 3.28 ft tall. 10 Description of size, and woody plants less than 3.28 ft tall. 10 Description of size, and woody plants less than 3.28 ft tall. 10 Description of size, and woody vines greater than 3.28 ft in height 10 Description of size, and woody vines greater than 3.28 ft in height 11 Description of size, and woody plants less than 3.28 ft tall. 12 Description of size, and woody plants less than 3.28 ft tall. 13 Description of size, and woody vines greater than 3.28 ft in height 14 Description of size, and woody vines greater than 3.28 ft in height 15 Description of size, and woody vines greater than 3.28 ft in height 16 Description of size, and woody vines greater than 3.28 ft in height 17 Description of size, and woody vines greater than 3.28 ft in height 18 Description of size, and woody vines gr			S	
11	9		112,957,555,7	[4] [그리고 영화를 열려가 되었다면 하는 것이라고 있다. 마양성하지만 있다면 한 경우 하는 경우에 받아 보다 보다 보다 보다 보다 보다 보고 있다고 있다고 있다.
12		H- (-)		and greater than 3.28 ft (1 m) tall.
Woody Vine Stratum (Plot size: 30' radius) 1				Herb - All herbaceous (non-woody) plants, regardless
Woody Vine Stratum (Plot size: 30' radius) 1	12)		 of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30' radius) height 1 2 3 4 Emarks: (include photo number here or on a separate sheet.) Problematic vegetation due to a long term managed plant community area consisting of glycine		<u>50</u>	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in
1	Woody Vine Stratum (Plot size: 30' radius)			
2	1.		П	_
4	2			
4	3.	8 2		Hydronhydia
0 = Total Cover Present? Yes □ No ☑ Remarks: (include photo number here or on a separate sheet.) Problematic vegetation due to a long term managed plant community area consisting of glycine	4.			
Remarks: (include photo number here or on a separate sheet.) Problematic vegetation due to a long term managed plant community area consisting of glycine		0	= Total Cover	
		et.) Problemati	c vegetation due to a	ong term managed plant community area consisting of glycine
				8

EUII			
	_	-	

Depth	Matrix				Redox Fea	tures							
nches)	Color (moist)	%	Color	(moist)	%	Type ¹	Loc ²	-	Texture		R	emarks	
0	N 1/0	100		,		-		Silty clay			- 1	oridina	
14.5	2.5Y 4/2	75	10YR 5/6		c/p	C	M	Clay	loani		_		_
1110	2.5Y 3/1	25	10111 0/0					Clay					
5-21	2.5Y 4/2		10VD 4/6	,	-1-			01					_
5-21	2.51 4/2	100	10YR 4/6)	c/p	C	M	Clay					_
					-								
-													_
						. 		-	Time L				_
		-				-							_
	Concentration, D=Dep	oletion, RN	/I=Reduced	Matrix, CS	S=Covered o	or Coated Sar	nd Grains				Lining, M=N		
	il Indicators: Histosol (A1)			П Р-	hamluc Bel-	au Suefono (C	9) // PP P				tic Hydric		
2	Histic Epipedon (A2)			☐ Pol	MLRA 149	ow Surface (S	o) (LKK R,					MLRA 149B) LR K, L, R))
	Black Histic (A3)			☐ Thi		ace (S9) (LR I	R R. MLRA					LR K, L, R) 3) (LLR K, L, I	B)
	Hydrogen Sulfide (A4)				Mineral (F1) (CI IN CONTRACTOR	Dark S	Surface (S7	(LRR K, L)	1
	Stratified Layers (A5)				amy Gleyed) (LRR K, L)	
	Depleted Below Dark		A11)		pleted Matri						e (S9) (LRR		
	Thick Dark Surface (A	112)		☐ Re	dox Dark Su	urface (F6)						2) (LRR K, L,	, R
	Sandy Mucky Mineral			□ De	pleted Dark	Surface (F7)						19) (MLRA 14	
	Canaly Olayand Makely	10.41		□ Re	dox Depress	eione (FR)			☐ Mesic	Spodic (TA	6) (MLRA 1	144A 145 14	40
	Sandy Gleyed Matrix	(54)			dov pebies:	310113 (1 0)							19E
	Sandy Redox (S5)	(54)		П	dox Depres	310113 (1 0)	81		☐ Red F	arent Mate	rial (TF2)		19E
	Sandy Redox (S5) Stripped Matrix (S6)		DA 440D)	П Ке	dox Depres	310113 (1 0)	87.	F4 (☐ Red F	arent Mate Shallow Dar	rial (TF2) k Surface (19B
	Sandy Redox (S5)		RA 149B)		dox Depres	310113 (1 0)	**	F4 (☐ Red F	arent Mate	rial (TF2) k Surface (19B
dicators	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta	RR R, MLI	24471 SB(2333)			30/1 3	urbed or pro	+	☐ Red F	arent Mate Shallow Dar	rial (TF2) k Surface (19B
dicators	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed	RR R, MLI	24471 SB(2333)			30/1 3	urbed or pro	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	198
dicators strictive	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed	RR R, MLI	24471 SB(2333)			30/1 3	urbed or pro	oblematic.	☐ Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pro	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pro	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pro	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta a Layer (if observed b: th (inches):	RR R, MLI ation and v):	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed ::	RR R, MLI ation and v):	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed ::	RR R, MLI ation and v):	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed ::	RR R, MLI ation and v):	24471 SB(2333)			30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed ::	RR R, MLI ation and v):	24471 SB(2333)		st be presen	30/1 3	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (Li of Hydrophytic vegete Layer (if observed ::	RR R, MLI ation and v):	24471 SB(2333)		st be presen	it, unless distr	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed :: h (inches): Soil is regularly plower	RR R, MLI ation and v):	24471 SB(2333)		st be presen	it, unless distr	urbed or pro	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed :: h (inches): Soil is regularly plower	RR R, MLI ation and v):	24471 - 50123334 <u>8</u> 1		st be presen	it, unless distr	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed :: h (inches): Soil is regularly plower	RR R, MLI ation and v):	24471 - 50123334 <u>8</u> 1		st be presen	it, unless distr	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed :: h (inches): Soil is regularly plower	RR R, MLI ation and v):	24471 - 50123334 <u>8</u> 1		st be presen	it, unless distr	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed :: h (inches): Soil is regularly plower	RR R, MLI ation and v):	24471 - 50123334 <u>8</u> 1		st be presen	it, unless distr	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	19E
dicators strictive Type Depti	Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LI of Hydrophytic vegeta e Layer (if observed :: h (inches): Soil is regularly plower	RR R, MLI ation and v):	vetland hyd		st be presen	it, unless distr	urbed or pre	oblematic.	Red F	arent Mate Shallow Dar (Explain in	rial (TF2) k Surface (Remarks)	ΓF12)	991

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: State: WI Sampling Point: 38 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): low terrace/floodplain Local relief (concave, convex, none): none Slope (%): nearly level Lat: Long: Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ Are Vegetation_ _, Soil____, or Hydrology ___ _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. ⊠Yes Is the Sampled Area Hydrophytic Vegetation Present? □No within a Wetland? □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠Yes** □No If yes, optional Wetland Site ID: PCA No. 15 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) □ Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) ☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ○ Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes X No 🗌 Depth (inches): 0 (at surface) Saturation Present? Yes 🛛 Depth (inches): 0 (at surface) Wetland Hydrology Present? No 🗌 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Other indicators of hydrology are: Sample area is located in a mapped floodway.

VEGETATION	- Use scientific names of	plants.
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Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2		- п		That are OBL, FACW, or FAC: 6 (A)
3				Total Number of Dominant
4			3	Species Across All Strata: 6 (B)
5			-	to and the second of the secon
6		ā		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
1 3			_	Prevalence Index worksheet:
7				22 A 28/2 AS
Ø.	<u>0</u>	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)	W	<u>8 - </u>		OBL species x 1 =
Cornus stolonifera	<u>6</u>	⋈	FACW	FACW species x 2 =
2. Salix exigua	3		OBL	FAC species x 3 =
3		П		FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B)
6		Д		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	9	= Total Cov	er	Rapid Test for Hydrophytic Vegetation Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	9			☐ Prevalence Index is =3.0¹
1. Iris virginica	25	\boxtimes	OBL	☐ Morphological Adaptations¹ (Provide supporting
2. Carex lacustris	20	\boxtimes	OBL	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Scirpus atrovirens	20		OBL	Trosicinato riyoropriyato vogotatori (Explairi)
4. Typha angustifolia	<u>15</u>		OBL	¹ Indicators of hydric soil and wetland hydrology must
	10			Be present, unless disturbed or problematic.
5. Phalaris arundinacea	2002		FACW	Definitions of Vegetation Strata:
6. Aster simplex	<u>5</u>		FACW	The second of th
7. Carex trichocarpa	5		OBL	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Eupatorium maculatum	<u>5</u>		OBL	at breast height (DBH), regardless of height
9. Scirpus validus	<u>5</u>		OBL	Sapling/shrub - Woody plants less than 3in. DBH
10. Equisetum fluviatile	2	므	OBL	and greater than 3.28 ft (1 m) tall.
11	-			Herb - All herbaceous (non-woody) plants, regardless
12	-			of size, and woody plants less than 3.28 ft tall.
SANS OF BETTING THE PROPERTY OF THE STREET O	112	= Total Cov	er	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1. Vitis riparia	<u>6</u>	\boxtimes	FACW	
2		П -	-	
3				Hydrophytic
4		П	_	Vegetation
	<u>6</u>	= Total Cov		Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet	.) Shallow ma	arsh and sedge	meadow. Pl	noto 41.
		9		1
5.				1
				4
6 3				*
9				
0.5				*
			1.00	*
				MI Company of the Com

COIL		

Depth	Mat	rix			Redox Fea	tures					
(inches)	Color (moist		Color	(moist)	%	Type ¹	Loc ²		Texture	Re	marks
-20	N 1/0	100						Muck			117771070
			-					S			
				- 7							
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	- 0		=					(i) 			
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	27				-/						
							- 1		THE DESIGNATION OF THE PARTY AND THE PARTY A		n wannen
					Marie Control of the			NATION AND ADDRESS OF THE PARTY			
	Concentration, D=	Depletion, F	RM=Reduced	d Matrix, C	CS=Covered o	or Coated San	d Grains		² Location: PL=Por		
	oil Indicators: Histosol (A1)			□Р	aharahia Bala	w Surface (S	OV /I DD D		dicators for Problem 2 cm Muck (A1)		
	Histic Epipedon (A2)			MLRA 149	Philipping and and an expension of the contract of the contrac) (LKK K,		☐ 2 cm Muck (A1☐ Coast Prairie R		
	Black Histic (A3)	1000 fr		ΠТ		ace (S9) (LRF	R. MLRA	(149B)	5 cm Mucky Pe		
	Hydrogen Sulfide					Mineral (F1) (☐ Dark Surface (S		Control of the Contro
	Stratified Layers ((A5)		50 EN 1719	oamy Gleyed				☐ Polyvalue Belov		
	Depleted Below D		(A11)		epleted Matri				☐ Thin Dark Surfa		
	Thick Dark Surface Sandy Mucky Mir				tedox Dark Su						() (LRR K, L, R)
	Sandy Gleyed Ma			100	ledox Depres	Surface (F7)					9) (MLRA 149B 44A, 145, 149B)
	Sandy Redox (S5			Ш, 1	edox Depres	310113 (1 0)			Red Parent Ma		142, 143, 1430)
	Stripped Matrix (S								☐ Very Shallow D		F12)
	Dark Surface (S7	(IRRR M	LRA 149B)						Other (Explain	in Domarka)	
		/ (= ixix ix, iii							- Garor (Expiant	in Kemarks)	
									COLOR DO CONTROL PROPERTIES	iii Remarks)	
	of Hydrophytic ve	getation and		drology m	ust be presen	nt, unless dist	irbed or pr	oblematic	COLOR DO CONTROL PROPERTIES	in Remarks)	
Restrictiv	e Layer (if obser	getation and		drology m	ust be presen	nt, unless distu	irbed or pr		b		No. 🗆
estrictiv Type	e Layer (if obser	getation and		drology m	ust be presen	nt, unless distu	irbed or pr		COLOR DO CONTROL PROPERTIES	Yes ⊠	No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be preser	nt, unless dist	irbed or pr		b		No 🗆
Restrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be presen	nt, unless distu	irbed or pro		b		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be presen	nt, unless distu	irbed or pro		b		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be presen	nt, unless distu	irbed or pro		b		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be preser	nt, unless distu	irbed or pro		b		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be preser	nt, unless distu	irbed or pre		b		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be preser	nt, unless distu	irbed or pre		b		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and		drology m	ust be preser	at, unless distu	irbed or pr		b		No 🗆
Restrictiv Type Dept	e Layer (if obser e:	getation and	d wetland hyd		**************************************			Ну	dric Soil Present?		No 🗆
Restrictiv Type Dept	e Layer (if obser e:	getation and	d wetland hyd		**************************************			Ну	dric Soil Present?		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and	d wetland hyd		**************************************	at, unless distu		Ну	dric Soil Present?		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and	d wetland hyd		**************************************			Ну	dric Soil Present?		No 🗆
testrictiv Type Dept	e Layer (if obser e:	getation and	d wetland hyd	8	2			Ну	dric Soil Present?		No 🗆
Restrictiv Type Dept	e Layer (if obser e:	getation and	d wetland hyd	8	**************************************			Ну	dric Soil Present?		No 🗆
Restrictiv Type Dept	e Layer (if obser e: th (inches):	getation and	d wetland hyd	8	2			Ну	dric Soil Present?		No 🗆
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Restrictiv Type Dept	e Layer (if obser e: th (inches):	getation and	d wetland hyd	8	2			Ну	dric Soil Present?		No 🗆
Restrictiv Type Dept	e Layer (if obser e: th (inches):	getation and	d wetland hyd	8	2			Ну	dric Soil Present?		No 🗆
Restrictiv Type Dept	e Layer (if obser e: th (inches):	getation and	d wetland hyd	8	2			Ну	dric Soil Present?		No 🗆
Restrictiv Type	e Layer (if obser e: th (inches):	getation and	d wetland hyd	8	2			Ну	dric Soil Present?		No 🗆

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: State: WI Sampling Point: 39 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-2% Lat: Long: Datum: Soil Map Unit Name: Sebewa silt loam (Sm) Pd NWI classification: T3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🗌 Are Vegetation____, Soil____, or Hydrology _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ☐Yes ⊠No □Yes Wetland Hydrology Present? **⊠**No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? No 🖂 Depth (inches): Water Table Present? Yes No 🗵 Depth (inches): Saturation Present? Yes 🗌 No 🖂 Depth (inches): Wetland Hydrology Present? Yes I No 🖂 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

VEGETA	TION	- Use scientific names of plants.

Tree Stratum (Plot size: 30' radius)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus tremuloides		<u>50</u>	\boxtimes	FAC	Number of Dominant Species
2. Picea abies (planted)		10	пП	NI	That are OBL, FACW, or FAC: 1 (A)
3		-			Total Number of Dominant
4			П		Species Across All Strata: 5 (B)
5		-			Percent of Dominant Species
6					That Are OBL, FACW, or FAC: 20 (A/B)
7		Marie Company			Prevalence Index worksheet:
		60	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)					OBL species x 1 =
1. Lonicera X bella		33	\boxtimes	NI	FACW species x 2 =
2. Rhamnus cathartica		25	\boxtimes	FACU	FAC species x 3 =
				, decident all pooling	
4				_	FACU species x 4 =
5			Ц	-	UPL species x 5 =
6			Ц		Column Totals: (A) (B)
				-	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
7			П		Rapid Test for Hydrophytic Vegetation
		<u>58</u>	= Total Cov	er	☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)			E- 2		☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
Aster sagittifolius		<u>10</u>		<u>NI</u>	data in Remarks or on a separate sheet)
2. Lonicera X bella		<u>10</u>	\boxtimes	NI	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Parthenocissus quinquefolia		<u>5</u>		<u>FACU</u>	¹ Indicators of hydric soil and wetland hydrology must
4. Rhamnus cathartica		<u>5</u>	П	FACU	Be present, unless disturbed or problematic.
5. Acer negundo		2	П	FACW	
6. Geum canadense		1		FAC	Definitions of Vegetation Strata:
7			Д		Tree – Woody plants 3in. (7.6 cm) or more in diameter
8			П	-	at breast height (DBH), regardless of height
9					Sapling/shrub – Woody plants less than 3in. DBH
10					and greater than 3.28 ft (1 m) tall.
11		1 <u>77332-73</u> 2			Harb All barbarasia (see weeds) plants recording
12					Herb All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
€		33	= Total Cov	er	
Woody Vine Stratum (Plot size: 30' radius)					Woody vines – All woody vines greater than 3.28 ft in
1					height
2			$\overline{\Box}$		
2					STANDARD PROGRAMMENT
3.					Hydrophytic Vegetation
4			(10 ¹⁷ -1)		Present? Yes □ No ☒
Remarks: (include photo number here or on a separate :	cheet	1 I Inland this	= Total Cov		
Trainers (molece priote named here of on a separate of	aridet	.) Opiana uni	oket and nardw	oods. Thoto	
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Depth	Matrix		30	Redox Fe	atures	A STATE OF THE STA			100
(inches)	Color (moist)	%	Color (moist) %	Type ¹	Loc ²	Texture		Remarks
-10	2.5Y 2.5/1	100	1				Silt loam		State of the state
)				- A			2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Refusal - roo	ots
	*							Trondon 100	
	-								1000-200-
									
-	+ 								
			36 15 115						
							2		
		100 00 - 201							
	5 (5		- 100 miles	Vi - 0 (0.02		-			
pe: C=	Concentration, D=De	epletion, RM=F	Reduced Matrix	c, CS=Covered	or Coated Sa	nd Grains	² Location: F	L=Pore Lining, M=	Matrix
	oil Indicators:							roblematic Hydric	
	Histosol (A1)				low Surface (S	8) (LRR R,		ck (A10) (LRR K, L	
	Histic Epipedon (A2))	_	MLRA 1				airie Redox (A16) (점점에 많은 하지만 그리고 하는 사람은 사람이 하는데 하는데 하다.
-	Black Histic (A3)	40		Thin Dark Su	rface (S9) (LR	R R, MLRA		cky Peat or Peat (S	College Comment of the College
	Hydrogen Sulfide (A Stratified Layers (A5			Loamy Mucky	y Mineral (F1)	(LRR K, L)		face (S7) (LRR K,	
	Depleted Below Dar		1)	Depleted Mat		0.8		e Below Surface (S k Surface (S9) (LR	
	Thick Dark Surface		"	Redox Dark S				ganese Masses (F	C (10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Sandy Mucky Minera				rk Surface (F7)			t Floodplain Soils (
	Sandy Gleyed Matri:		, 🗆	Redox Depre				odic (TA6) (MLRA	
	Sandy Redox (S5)						☐ Red Pare	ent Material (TF2)	
	Stripped Matrix (S6)		4.400)					llow Dark Surface	
-	Dark Surface (S7) (L	LRR R, MLRA	149B)				☐ Other (E	kplain in Remarks)	
ndicators	s of Hydrophytic vege	etation and wetl	and hydrology	must be prese	ent. unless dist	urbed or prol	blematic.		
	e Layer (if observe								
Туре	e: tree and shrub root	ts					Hydric Soil Pre	sent? Yes	No ⊠
	th (inches): 10								a cost About
marks:	Could not penetrate l	below 10" (eve	n with a soil pr	obe) due to the	e thick root ma	SS.			
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: Sampling Point: 40 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): nearly level Lat: Long: Datum: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: T3/E2K Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation_ _, Soil__ ___, or Hydrology ___ _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? ⊠ Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠Yes** □No If yes, optional Wetland Site ID: PCA No. 16 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) □ Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) □ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) ☐ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) \boxtimes Field Observations: Surface Water Present? Depth (inches): Yes No 🖂 Water Table Present? Yes 🛛 Depth (inches): 9 No Saturation Present? Yes 🛛 Depth (inches): 0 (at surface) No 🗆 Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Soils saturated at the surface.

From Streetum (Plot alana 20) re-dis-A	Absolute	Dominant	Indicator	Deminera Testaval III
Free Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
<u>. </u>	· ·			Number of Dominant Species That are OBL, FACW, or FAC: 4 (A)
2	1 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		· —	097 C 997 8 970 V
3	-			Total Number of Dominant Species Across All Strata: 4 (B)
<u>. </u>			-	1.0
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
)				
				Prevalence Index worksheet:
	0	= Total Cov	/er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)		571	E40141	OBL species x 1 =
1. Cornus stolonifera	<u>5</u>		FACW	FACW species x 2 =
2. Salix discolor	<u>3</u>		FACW	FAC species x 3 =
3				FACU species x 4 =
1	5	. 🗆 '		UPL species x 5 =
5	100			Column Totals: (A) (I
3				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	8	= Total Cov	/er	☐ Napid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0¹
. Carex stricta	60	⋈	OBL	☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
Calamagrostis canadensis	<u>33</u>		OBL	☐ Problematic Hydrophytic Vegetation¹ (Explain)
Phalaris arundinacea	10		<u>FACW</u>	There are the second of the se
4. Eupatorium perfoliatum	<u>5</u>		OBL	¹ Indicators of hydric soil and wetland hydrology mus Be present, unless disturbed or problematic.
5. Carex trichocarpa	3 <u>3</u>		OBL	property among distances of properties.
6. Cornus stolonifera	3		FACW	Definitions of Vegetation Strata:
7				Tree – Woody plants 3in. (7.6 cm) or more in diameter
3,				at breast height (DBH), regardless of height
o)——)	
10				Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11				The state of the s
12	7-5-E		-	Herb – All herbaceous (non-woody) plants, regardles
	114	= Total Cov	/or	of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30' radius)	22-630	- Total Co		Woody vines - All woody vines greater than 3.28 ft
		П		height
1	-			
2			-	-
3	31	H		Hydrophytic
4		П		Vegetation Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate	D Shoot \ Sadga mar	= Total Cov		L 2005 (1007)
terraints. (include prioto number here or on a separate :	sneer.) Seage mea	adow. Photo 4	3.	
<u>%</u>	*			

Depth	escription: (Describe t Matrix		-11777	Redox Fe	atures				*
(inches)	Color (moist)	%	Color (mois	W. C.	Type ¹	Loc ²	Texture	D.	emarks
0-20	N 1/0	100	Color (IIIols	76				- Re	emarks
1-20	N 170						Muck		
								- 15	
					-				
								-	
				- 12 - 12 - 12 - 12 - 12 - 12 - 12 - 12	1				
						-			
		-						9.(
								control of the second	
Tunoi Co	Consessation D.D.	Lui - DM-D				10.	2		
	=Concentration, D=Dep oil Indicators:	letion, RIVI=R	educed Matri	x, CS=Covered	or Coated Sar	nd Grains		ore Lining, M=M	
	Histosol (A1)			Polyadus Pa	low Curfoos /C	0) // BB B	Indicators for Prob		
	Histic Epipedon (A2)			MLRA 1	low Surface (S	o) (LKK K,	☐ 2 cm Muck (☐ Coast Prairie	A10) (LRR K, L, Redox (A16) (L	MLKA 149B)
	Black Histic (A3)				rface (S9) (LRI	DD MIDA 1	149B) 5 cm Mucky	Peat or Peat (S3	
Company of the Compan	Hydrogen Sulfide (A4)				y Mineral (F1) (e (S7) (LRR K, L	Reference in the contract of t
	Stratified Layers (A5)			Loamy Gleye		LICIT IC, L)		elow Surface (S8	
Account .	Depleted Below Dark	Surface (A11	-	Depleted Ma				urface (S9) (LRR	
	Thick Dark Surface (A			Redox Dark				ese Masses (F1	
	Sandy Mucky Mineral	(S1)			k Surface (F7)		THE STORY OF BUILDING		19) (MLRA 149B)
	Sandy Gleyed Matrix (Redox Depre					44A, 145, 149B)
	Sandy Redox (S5)							Material (TF2)	
	Stripped Matrix (S6)						☐ Very Shallov	Dark Surface (T	F12)
	Dark Surface (S7) (LR	R R, MLRA	149B)				Other (Expla	in in Remarks)	
3	2010 0 0 00 0	1 1 2	23 G 2						
	s of Hydrophytic vegeta		and hydrology	y must be prese	ent, unless dist	urbed or prob	olematic.	350	
	e Layer (if observed)	:							
Туре	ASS 12.75 ASS 12.75						Hydric Soil Presen	t? Yes ⊠	No 🗆
	th (inches):								
Remarks:									
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 09/06/2011 Applicant/Owner: Sampling Point: 41 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): constructed pond Local relief (concave, convex, none): concave Slope (%): nearly level Lat: Datum: Long: Soil Map Unit Name: Wet alluvial land (Ww) NWI classification: W0Hx Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 __, Soil____, or Hydrology __ __ naturally problematic? Are Vegetation__ (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes Yes □No within a Wetland? Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 16 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Constructed pond with shallow marsh along the edge. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) □ Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) ☐ Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Recent Iron Reduction in Tilled Soils (C6) Algal Mat or Crust (B4) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Shallow Aquitard (D3) \boxtimes Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🛛 No 🗌 Depth (inches): 9 Water Table Present? Yes No 🗆 Depth (inches): Saturation Present? Yes No 🗌 Depth (inches): Wetland Hydrology Present? Yes 🛛 No \square (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Constructed pond.

Tron Stratum (Plot size: 20) radius)	Absolute	Dominant	Indicator	Sampling Point: 41
Tree Stratum (Plot size: 30' radius) 1	% Cover	Species?	Status	Dominance Test worksheet:
2				Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
3			. —	1794 S AVARD 1 57 ABS 25 S27
4	-	. 🗀		Total Number of Dominant Species Across All Strata: 1 (B)
5			_	Les de visit de la
5 5	V =			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
7				Prevalence Index worksheet:
**************************************	0			37 CW 2003/15/21 DE 500 SE 00 B
	<u>U</u>	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)	2			OBL species x 1 =
l·—				FACW species x 2 =
<u></u>	-			FAC species x 3 =
3	-	Ш		FACU species x 4 =
W	-	П		UPL species x 5 =
i	-	П		Column Totals: (A) (B
S	VI	П		Prevalence Index = B/A =
\$ <u></u>	3 			Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
6	<u>O</u>	= Total Cov	er	Dominance Test is >50%
lerb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0¹
. Eleocharis erythropoda	<u>25</u>		OBL	☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
. <u>Lemna minor</u>	<u>5</u>		OBL	☐ Problematic Hydrophytic Vegetation¹ (Explain)
. Blue green algae (75%)	-			24
0	NA CONTRACTOR OF THE PARTY OF T			¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
				property arraso detailed of problemate.
	2	П		Definitions of Vegetation Strata:
. <u> </u>				Tree – Woody plants 3in. (7.6 cm) or more in diameter
	-			at breast height (DBH), regardless of height
0	9			Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
1	2: Al	믑	_	and greater than 5.20 it (1111) tall.
2	-			Herb – All herbaceous (non-woody) plants, regardles
2	30			of size, and woody plants less than 3.28 ft tall.
WL-16	30	= Total Cov	er	Woody vines - All woody vines greater than 3.28 ft in
Voody Vine Stratum (Plot size: 30' radius)				height
·	-	- 🖳		
	2 - 12	Н.	-	
			_	Hydrophytic
1		П		Vegetation Present? Yes ⊠ No □
	0	= Total Cov		
Remarks: (include photo number here or on a separate atifolia, Cicuta bulbifera, and Bidens cernua. Construc	e sneet.) Other herb sted pond with shallo	s just outside s w marsh along	ample area ir the edge. P	nclude: Typha angustifolia, Scirpus validus, Sagittaria
A STATE OF THE STA	paris mai oriano		5390.	
				* *

per CeConcentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains		1	Matrix				Redox Featu	ires									
Indicators	cnes)	Color (mo	oist)	%	Color (r	moist)	<u>%</u>	Type'	Loc ²		Text	ure			Re	marks	
ric Soil Indicators: Histosoi (A1)						-10					- 1						_
Indicators															+		
is Goll Indicators: Indicators Indicators for Problematic Hydric Soils*: Histosc (A1) Polyvalue Below Surface (S8) (LRR R. 2 cm Muck (A10) (LRR K, L, MLRA 149B) Cast Prairie Redox (A16) (LLR K, L Histo Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LLR R, L Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S1) (LRR K, L) Depleted Bartix (F2) Thick Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (S1) (LRR K, L) Depleted Matrix (F2) Polyvalue Below Surface (S1) (LRR K, L) Stratified Layers (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLI Sandy Redox (S5) Sardy Mucky Mineral (S1) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 144B) Sardy Redox (S5) Stripped Matrix (S6) Park Surface (F7) Piedmont Floodplain Soils (F19) (MLI A144A, 144B) Sardy Redox (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Cast Surface (F7) Piedmont Floodplain Soils (F19) (MLI A144A, 144B) Piedmont Floodplain Soils															70-700		
is Soil Indicators: Indicators Indicators for Problematic Hydric Soils*: Histosci (A1) Polyvalue Below Surface (S8) (LRR R. 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LLR K, L Histo Epipedon (A2) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LLR R Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S1) (LRR K, L) Depleted Batrix (F2) Thick Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A11) Thick Dark Surface (A11) Depleted Dark Surface (A11) Piedmont Floodplain Soils (F19) (MLR A 144A, H) Sandy Redox (S5) Red Parent Material (TF2) Piedmont Floodplain Soils (F19) (MLR A 144A, H) Sandy Redox (S5) Thipped Matrix (S6) Piedmont Floodplain Soils (F19) (MLR A 144A, H) Sandy Redox (S7) (LRR R, MLRA 149B) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, H) Sandy Redox (S7) (LRR R, MLRA 149B) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, H) Sandy Redox (S7) (LRR R, MLRA 149B) Depleted Dark Surface (TF2) Depth (Indicate Septiment Septi																	_
Histosof (A1)			D=Deple	tion, RM=	Reduced N	лаtrix, С	S=Covered or	Coated Sand	Grains	Inc							
Type:	Cators of	Histosol (A1) Histic Epipedo Black Histic (A Hydrogen Sulf Stratified Laye Depleted Belo Thick Dark Su Sandy Mucky Sandy Gleyed Sandy Redox Stripped Matri Dark Surface of Hydrophytic	(3) fide (A4) ers (A5) w Dark Su rface (A12 Mineral (S Matrix (S-(S5) x (S6) (S7) (LRR	2) 51) 4) R.R. MLRA	(149B)	☐ Th☐ Lo☐ Lo☐ De☐ Re	MLRA 149E in Dark Surfar amy Mucky M amy Gleyed M pleted Matrix dox Dark Sur pleted Dark S dox Depressi	B) ce (S9) (LRR lineral (F1) (L Aatrix (F2) (F3) face (F6) curface (F7) ons (F8)	R, MLRA 149 RR K, L)	OB)		e cm M Coast F Coast Su Colyval Chin Da Fon-Ma Piedmo Mesic S Red Pa Very St	uck (A1 Prairie F ucky Pourface (ue Belourk Surf nganes nt Floo Spodic (rent Ma nallow [0) (LF Redox eat or S7) (L ow Sur ace (S se Mas dplain (TA6) (aterial Dark S	RR K, L, I (A16) (LI Peat (S3) RR K, L) face (S8) 69) (LRR sses (F12 Soils (F1 (MLRA 1- (TF2) urface (T	MLRA 149E LR K, L, R) (LLR K, L (LRR K, L K, L) () (LRR K, I 9) (MLRA 44A, 145, 1) -, F -) L,
	Type:		served): 							Ну	dric S	Soil Pr	esent?		Yes ⊠	No 🗆	
	arks: C	Constructed po	and with m	iucky/grav	el bottom.	Soils in	undated with 9	9" of water - h	ydric by defin	ition (Criter	ia 3).				- 5	ì
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 09/06/2011 Applicant/Owner: Sampling Point: 42 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-2% Long: Datum: Soil Map Unit Name: Colwood silt loam (Cw) Pd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation_____, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation_ _ naturally problematic? _, Soil____, or Hydrology ___ (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed soils due to nursery land management activities. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) □ Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) ☐ Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) \Box FAC-Neutral Test (D5) Field Observations: Surface Water Present? No 🖂 Depth (inches): Yes Water Table Present? Yes No 🖂 Depth (inches): Saturation Present? Yes No 🖂 Depth (inches): Wetland Hydrology Present? Yes 🗆 No 🖾 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

Tree Stratum (Plot size: 30' radius)	Absolute	Dominant	Indicator	Dominance Test worksheet:
1	% Cover 25	Species?	Status FAC	VOLUME TO THE STREET AND ADDRESS OF THE STREET OF THE STRE
Gleditsia triacanthos	10	. 🗵		Number of Dominant Species That are OBL, FACW, or FAC: 6 (A)
2. Populus deltoides	3		FAC	200900000 0 600 0 0
3. Picea pungens	2		NI	Total Number of Dominant Species Across All Strata: 8 (B)
4				193 - 194 - 19 - 198 - 19 - 19 - 19 - 19 - 19 - 1
5		Ξ.	2	Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
6	:	. 💾	-	
7	-	<u> </u>		Prevalence Index worksheet:
,(1 · 1)	38	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1. Rhamnus cathartica	<u>5</u>	\boxtimes	FACU	FACW species x 2 =
2. Lonicera x bella	3		NI	FAC species x 3 =
3. Morus alba	2	\boxtimes	FAC	FACU species x 4 =
4		П	ä	UPL species x 5 =
5		П		Column Totals: (A) (B)
6		П		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
1	10	= Total Cov		Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)	-	- Total Gov	J.	□ Dominance Test is >50% □ Prevalence Index is =3.0¹
1. Poa pratensis	50		FAC	☐ Morphological Adaptations¹ (Provide supporting
2. Setaria glauca	25	⊠	FAC	data in Remarks or on a separate sheet)
3. Cirsium arvense	20		FACU	☐ Problematic Hydrophytic Vegetation¹ (Explain)
22 195 BI BI BI			- 12-20-21-20-21-21	¹ Indicators of hydric soil and wetland hydrology must
4. Daucus carota	<u>5</u>	П .	NI	Be present, unless disturbed or problematic.
5. Acer negundo	<u>3</u>	П	FACW	Definitions of Vegetation Strate.
6. Aster simplex	3	П	FACW	Definitions of Vegetation Strata:
7. Phalaris arundinacea	3	П	FACW	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Aster pilosus	2	П	<u>FACU</u>	at breast height (DBH), regardless of height
9. <u>Dactylis glomerata</u>	2		FACU	Sapling/shrub - Woody plants less than 3in. DBH
10. Oxalis stricta	2		FACU	and greater than 3.28 ft (1 m) tall.
11. Salix nigra	2	П	OBL	Herb – All herbaceous (non-woody) plants, regardless
12		П		of size, and woody plants less than 3.28 ft tall.
T (7)	117	= Total Cov	er	1. 1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
Woody Vine Stratum (Plot size: 30' radius)				Woody vines - All woody vines greater than 3.28 ft in height
1. <u>Vitis riparia</u>	<u>5</u>	\boxtimes	FACW	in significant the significant
2.		П		1
3.			E - 19	The state of the s
4.				Hydrophytic Vegetation
	5	= Total Cov	 er	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate shee		The state of the s	31	
\$100 to 14				* "
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Profile De	scription: (Describe t	o the de	pth needed to do	ocument the ind	licator or co	nfirm the a	bsence c	of indicators.)	1	
Depth	Matrix			Redox Fea	tures		100			1-
(inches)	Color (moist)	%	Color (mois	t) %	Type ¹	Loc ²		Texture	R	Remarks
0-10	10YR 2/1	100					Clay loa			+
10-12	10YR 4/2	50	10YR 5/6	c/p	C	M	Clay loa		fill material	
	10Y 2.5/1	50	10111070				Oldy lot		- minimatorial	
12-22									EUtll	4 . 6
12-22	10YR 2/1	80					Loam		fill material	
	2.5Y 6/2	20					9-14-03-6			
		_								
			en ja vanati							
			27							
				4-1905						
3.6							100	12.00	7	
		-				-				
	Concentration, D=Depl	etion, RN	M=Reduced Matri	x, CS=Covered o	or Coated Sa	nd Grains		² Location: PL=P		
and the second second second second	il Indicators:			0.00 (0.00 0.00 0.00 0.00 0.00 0.00 0.0				dicators for Probl		
	Histosol (A1)			Polyvalue Belo		88) (LRR R ,	6		410) (LRR K, L,	
0.000	Histic Epipedon (A2)			MLRA 149	Self College of the contract o	D D MI DA	(4400)		Redox (A16) (L	
	Black Histic (A3) Hydrogen Sulfide (A4)			Thin Dark Surf Loamy Mucky					(S7) (LRR K, L	3) (LLR K, L, R)
	Stratified Layers (A5)		. 6	Loamy Gleyed		(LIKIK IK, L)			low Surface (St	(A)
	Depleted Below Dark	Surface (Depleted Matri					rface (S9) (LRF	스 : [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]
	Thick Dark Surface (A	12)		Redox Dark St				☐ Iron-Mangan	ese Masses (F1	12) (LRR K, L, R)
	Sandy Mucky Mineral			Depleted Dark		r)				19) (MLRA 149B)
	Sandy Gleyed Matrix (S4)		Redox Depres	sions (F8)					144A, 145, 149B)
	Sandy Redox (S5) Stripped Matrix (S6)								∕laterial (TF2)	TE42)
	Dark Surface (S7) (LR	R R. ML	RA 149B)						in in Remarks)	11-12)
77.75 A	AT A SAN THE S		ran kang					П отпол (., ,	
	of Hydrophytic vegeta		wetland hydrology	must be preser	nt, unless dist	urbed or pr	oblematic	o		
	e Layer (if observed)									
Туре	100 to 10						H	ydric Soil Present	? Yes 🗌	No ⊠
	th (inches): Soils have been filled fo			eth dalam I avv alam		anlla mana	nt Dada		1-	
Remarks.	Soils have been filled to	or nurser	y management ac	cuvities. Low chi	oma wetiand	soils prese	ent. Redo	x appears to be re	ic.	
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 09/06/2011 Sampling Point: 43 Applicant/Owner: State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): small drainage way Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Datum: Long: Soil Map Unit Name: Colwood silt loam (Cw) Pd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 __ naturally problematic? (If, needed, explain any answers in Remarks.) Are Vegetation_ _, Soil____, or Hydrology _ SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes No If yes, optional Wetland Site ID: PCA No. 17 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) П Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) П Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) M Geomorphic Position (D2) ☐ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) \boxtimes FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖂 Depth (inches): Water Table Present? Yes 🗌 No 🖂 Depth (inches): _ Saturation Present? Yes No 🖂 Depth (inches): Wetland Hydrology Present? Yes 🛛 No 🗆 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION - Use	scientific names of plants
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Troo Stratum (Blat aires 20) radius)		Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30' radius) 1. Betula nigra (planted)		% Cover	Species?	Status	Dominance Test worksheet:
The first telephone the first telephone to the first telephone tel		4	75-77	FACW	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2		_		-	
3					Total Number of Dominant Species Across All Strata: 3 (B)
4		-			Species Across All Strata: 3 (B)
5			ш		Percent of Dominant Species
6		_	П		That Are OBL, FACW, or FAC: 67 (A/B)
7		-	П		Prevalence Index worksheet:
		2	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size; 30' radius)					OBL species x1 =
1. Acer saccharinum		3		FACW	FACW species x 2 =
2. Pinus sylvestris (planted)		2	×	NI	FAC species x 3 =
3					
4				-	The second secon
5					UPL species x 5 =
6		-			Column Totals: (A) (B)
7				-	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
··				1 <u></u>	Rapid Test for Hydrophytic Vegetation
I No. 1 Page 1		5	= Total Cov	er	□ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)		100	F-3		☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
Phalaris arundinacea		<u>100</u>		FACW	data in Remarks or on a separate sheet)
2. Agrostis stolonifera		<u>5</u>		FACW	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Juncus dudleyi		<u>5</u>		FAC	¹ Indicators of hydric soil and wetland hydrology must
4. Polygonum pensylvanicum		<u>5</u>		FACW	Be present, unless disturbed or problematic.
5. Epilobium coloratum		1		OBL	
6		200			Definitions of Vegetation Strata:
7					Troe - Woody plants 2in /7 6 cm) as mass in diameter
8				-	Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
9		4 7 7			FG A GR 679
10			12	_	Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11					and greater than 3.20 ft (1 m) tall.
		_			Herb - All herbaceous (non-woody) plants, regardless
12		440	П	-	of size, and woody plants less than 3.28 ft tall.
50 N		<u>116</u>	= Total Cov	er	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)			-		height
1			П		4
2				_	
3				1	Hydrophytic
4		-			Vegetation
		<u>0</u>	= Total Cove	er	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate	sheet	.) Fresh (wet			
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2 2					
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10YR 2/1	Depth	Matrix			Redox F	eatures		_			
3 10Y 2.5/1 100 7.5/R 4/6 to 5/6 m/p C PL Clay Pop- Ce-Concentration, De-Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Coation: PL=Fore Lining, M=Matrix Coation: PL=Fore Lining, M=Matrix	(inches)	Color (moist)	%	Color (mois	st) %	Type ¹	Loc ²	Tex	ture	Re	marks
20 2.5Y 4/1 100 7.5YR 4/8 to 5/8 m/p C PL Clay Poper C=Concentration, D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains Plancation Plancati	6	10YR 2/1	100					Silty clay loa	m		
2.5 2.5 4/1	13	10Y 2.5/1	100	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT							
This Continue (Art) Pobyvalue Below Surface (S8) (LRR R, MLRA 1498) Coast Prairie Reduced Matrix, CS=Covered or Coated Sand Grains Alcoation: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils: Indicators for Problematic Hydric Soils: Indicators for Problematic Hydric Soils: Indicators for Problematic Hydric Soils: Pobyvalue Below Surface (S8) (LRR R, MLRA 1498) Coast Prairie Redox (A10) (LRR K, L, MRA 1498) Coast Prairie Redox (A10) (LRR K, L, R) Hydricogen Suffice (A4) Coast Prairie (R57) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Pedamont Floodplan Soils (F8) (MLRA 144A, 145, 149 Sandy Geyed Matrix (F4) Redox Dark Surface (F7) Pedamont Floodplan Soils (F8) (MLRA 144A, 145, 149 Sandy Geyed Matrix (F3) Redox Dark Surface (F7) Prodomont Floodplan Soils (F8) (MLRA 144A, 145, 149 Sandy Redox (S6) (LRR R, MLRA 1498) Red Parent Material (TF2) Other (Explain in Remarks) Redox Parent Material (TF2) Redox Pare	-20	2.5Y 4/1	100	7.5YR 4/6 to 5	5/6 m/p	С	PL	NAME AND ADDRESS OF THE OWNER, WHEN PARTY OF T			
Indicators (s) Polyvalue Below Surface (S8) (LRR R, Cambuck (A10) (LRR K, L, MLRA 149B) Cast Prairie Redox (A16) (LLR K, L, R) Rad 149B) Cast Prairie Redox (A16) (LLR K, L, R) Rad 149B) Cast Prairie Redox (A16) (LLR K, L, R) Rad Surface (S9) (LRR R, MLRA 149B) Cast Prairie Redox (A16) (LLR K, L, R) Cast Surface (A17) Cast											
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Histo Epipedon (A2)				_							
Black Histic (A3)				Ш			58) (LRR R,				
Hydrogen Sulfide (A4)			+				DD MIDA				
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 148 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Dark Surface (S7) Clark R, MLRA 149B) Depth (F2) (LRR K, L) May Surface (S7) Clark R, MLRA 149B) Depth (Iron-Manganese Masses (F12) Dark Surface (S7) (LRR R, MLRA 149B) Depth (Iron-Manganese Masses (F12) Dark Surface (S7) (LRR R, MLRA 149B) Depth (Iron-Manganese Masses (F12) Dark Surface (S7) (LRR R, MLRA 149B) Depth (Iron-Manganese Masses (F12) Dark Surface (S7) (LRR R, MLRA 149B) Depth (Iron-Manganese Masses (F12) Depth (Iron-Manganese Masses (F12) Depth (Iron-Manganese Masses (F12) Depth (Iron-Manganese Masses (F12) (LRR K, L) Iron-Manganese Masses (F12) ((1)								
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Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) dicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type:)		Piedmont Floodp	olain Soils (F1	9) (MLRA 149
Stripped Matrix (S6)			(S4)		Redox Dep	ressions (F8)			Mesic Spodic (T/	46) (MLRA 14	44A, 145, 149E
□ Dark Surface (S7) (LRR R, MLRA 149B) □ Other (Explain in Remarks) dicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: □ Depth (inches): □ Hydric Soil Present? Yes ☑ No □ marks:									Red Parent Mate	rial (TF2)	
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Depth (inches): marks:	ndicators	Dark Surface (S7) (LI of Hydrophytic vegeta	ation and v		y must be pre	sent, unless dis	turbed or pr		Very Shallow Da	rk Surface (T	F12)
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	dicators estrictive Type Dept	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	
	ndicators estrictive Type Dept	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	
	ndicators estrictive Type Dept	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	
	ndicators estrictive Type	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	
	ndicators estrictive Type Dept	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	
	ndicators estrictive Type Dept	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	
	dicators estrictive Type Dept	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	
	dicators estrictive Type Dept	Dark Surface (S7) (Li s of Hydrophytic vegeta e Layer (if observed a:	ation and v					oblematic.	Very Shallow Da Other (Explain in	rk Surface (T Remarks)	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/29/2011 Applicant/Owner: Sampling Point: 44 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Datum: Soil Map Unit Name: Mundelein silt loam (MzfA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are Vegetation_ ___, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? No 🗆 Are Vegetation_ _, Soil__ ___, or Hydrology _ (If, needed, explain any answers in Remarks.) _ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? ⊠ Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? **⊠Yes** □No If yes, optional Wetland Site ID: PCA No. 19 Remarks: (Explain alternative procedures here or in a separate report.) Normal precipitation for the past 90 days. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) ☐ High Water Table (A2) Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) \boxtimes Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) \boxtimes FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖂 Depth (inches): Water Table Present? Yes 🛛 Depth (inches): 17 No 🗌 Saturation Present? Yes 🛛 Depth (inches): 0 (at surface) Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: NRCS slide review shows 9 out of 10 years with wet signatures. Soils saturated at the surface.

VEGETATION	- Use scientific names	of plants.
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Ten a Street was (Diet aleas 20) and in		Absolute	Dominant	Indicator	Barriago Tartanda Lat
Tree Stratum (Plot size: 30' radius	<u>s</u>)	% Cover	Species?	Status	Dominance Test worksheet:
1			므	-	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
2			므		755YA W 53
3			Ξ.		Total Number of Dominant
4			П	-	Species Across All Strata: 2 (B)
5		-			Percent of Dominant Species
6			П		That Are OBL, FACW, or FAC: 100 (A/B)
7		-	\Box		Prevalence Index worksheet:
	¥.	0	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size	: 30' radius)				OBL species x 1 =
1,			П		FACW species x 2 =
2					FAC species x 3 =
3					FACU species x 4 =
4					
5					
6				-	Column Totals: (A) (B) Prevalence Index = B/A =
- 5% p.s.c1.40				5 -0	Hydrophytic Vegetation Indicators:
7					Rapid Test for Hydrophytic Vegetation
I was a second and a second	QS 0	0	= Total Cov	er	☑ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	40	679	540	☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
Setaria glauca	3 11	40	×	FAC	data in Remarks or on a separate sheet)
Solidago graminifolia		33		FACW	☐ Problematic Hydrophytic Vegetation¹ (Explain)
Typha angustifolia		<u>20</u>		OBL	¹ Indicators of hydric soil and wetland hydrology must
4. Scirpus atrovirens		<u>5</u>	\Box	OBL	Be present, unless disturbed or problematic.
5. Aster lateriflorus		3		FACW	- Ampril and the control of the cont
6. Barbarea vulgaris		3	П	FAC	Definitions of Vegetation Strata:
7. Erigeron strigosus		2	П	FAC	Tree – Woody plants 3in. (7.6 cm) or more in diameter
8. Rumex crispus		2		FAC	at breast height (DBH), regardless of height
9. Cirsium arvense		1		FACU	* 850 S 87 135 13 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
10			_		Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11		-	Η		and greater treat 0.20 K (1111) tall.
12					Herb – All herbaceous (non-woody) plants, regardless
12.		109		12/20	of size, and woody plants less than 3.28 ft tall.
		109	= Total Cov	er	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 3	0' radius)		-		height
1	***		П		
2		-	П	-	
3			- Π	-	Hydrophytic
4					Vegetation
		0	= Total Cov		Present? Yes ⊠ No □
Remarks: (include photo number	here or on a separate sheet	.) Fresh (wet)) meadow. Pho	oto 47.	
	41.7				
2				9	w 6
I					v .

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-	()	ш	

Depth	Matri			Redox Feat	The state of the s		_					
(inches)	Color (moist)	%	Color (mois	st) %	Type ¹	Loc ²		Texture		Re	emarks	
-9	N 2.5/0	100				Cities .	Clay loa	ım				
-18	10Y 5/1	100	7.5YR 5/8	c/p	С	M	Clay					
8-22	10Y 5/1	100	10GY 5/1	c/f	D	M	Clay			1 6		
			7.5YR 4/6	с/р	С	М						
								1				
	X (W) dies - Alexandria		A									
2:												
							-					
11127 (711) 2												
				- 1.11W/12\ e						77		
	7											
	Concentration, D=I	Depletion, RM	1=Reduced Matr	ix, CS=Covered o	r Coated Sar	nd Grains		² Location:	PL=Pore Li	ning, M=M	atrix	
	Il Indicators:					MANY MANY		dicators for l				a Area
	Histosol (A1) Histic Epipedon (A	2)		Polyvalue Belo MLRA 149		8) (LRR R,			uck (A10) (
	Black Histic (A3)	-2)		Thin Dark Surfa	Contract of the contract of th	R R MIRA	149R)		rairie Redo ucky Peat o			
	Hydrogen Sulfide ((A4)	ä	Loamy Mucky I		나 하는데 이렇지요 하실을 때한다면 하였다.	(1450)		irface (S7)			, =, (\)
	Stratified Layers (A			Loamy Gleyed		ementere serkettek			e Below S			, L)
	Depleted Below Da		A11) 🔲	Depleted Matrix		0.5			rk Surface			
	Thick Dark Surface			Redox Dark Su					nganese M			
	Sandy Mucky Mine			Depleted Dark					nt Floodpla			
	Sandy Gleyed Mat Sandy Redox (S5)			Redox Depress	sions (F8)				podic (TA6 rent Materia		44A, 145	i, 149B)
	Stripped Matrix (St								allow Dark		F12)	
	Dark Surface (S7)		RA 149B)									
	그 동안 하나 있는 것이 하나 한 것이 없는 것이 없는 것이 없는 것이 없다.							☐ Other (E	explain in F	temarks)		
			NAME DESCRIPTION						Explain in R	(emarks)		
	of Hydrophytic veg	getation and w	NAME DESCRIPTION	y must be presen	t, unless dist	urbed or pr	oblematic		explain in R	temarks)		
Restrictive	e Layer (if observ	getation and w	NAME DESCRIPTION	y must be presen	t, unless dist	urbed or pr			200 m	STORT SERVICE		-
Restrictive Type	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless dist	urbed or pr			200 m	Yes 🏻	No []
Restrictive Type Depti	e Layer (if observ	getation and w	NAME DESCRIPTION	y must be presen	t, unless distr	urbed or pr			200 m	STORT SERVICE	No 🗆]
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless dist	urbed or pr			200 m	STORT SERVICE	No []
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless disti	urbed or pr			200 m	STORT SERVICE	No []
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless distr	urbed or pr			200 m	STORT SERVICE	No []
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless dist	urbed or pr			200 m	STORT SERVICE	No [
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless dist	urbed or pr			200 m	STORT SERVICE	No []
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless dist	urbed or pr			200 m	STORT SERVICE	No 🗆]
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION	y must be presen	t, unless distr	urbed or pr			200 m	STORT SERVICE	No □	
Restrictive Type Deptl	e Layer (if observ ::	getation and w	vetland hydrolog			urbed or pr			200 m	STORT SERVICE	No []
Restrictive Type Deptl	e Layer (if observ ::	getation and w	NAME DESCRIPTION			urbed or pr	Ну	rdric Soil Pro	esent?	Yes ⊠	No []
Restrictive Type Deptl	e Layer (if observ ::	getation and w	vetland hydrolog			urbed or pr	Ну		esent?	Yes ⊠	No []
Restrictive Type Deptl	e Layer (if observ ::	getation and w	vetland hydrolog		t, unless distr	urbed or pr	Ну	rdric Soil Pro	esent?	Yes ⊠	No []
Restrictive Type Deptl	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog			urbed or pr	Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Deptl	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Deptl	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Depti	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Depti	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Deptl	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Deptl	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Deptl	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type Deptl	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [
Restrictive Type	e Layer (if observ :: h (inches):	getation and w	vetland hydrolog				Ну	rdric Soil Pro	esent?	Yes ⊠	No [

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/29/2011 Applicant/Owner: State: WI Sampling Point: 45 Section, Township, Range: NE 1/4 Section 7, T6N, R19E Investigator(s): Donald M. Reed, PhD., SEWRPC Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-3% Lat: Long: Datum: Soil Map Unit Name: Mundelein silt loam (MzfA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes

No

(If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🖂 No 🖂 Are Vegetation____, Soil____, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ☐Yes ⊠No □No Hydric Soils Present? ⊠Yes □No within a Wetland? Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 20 Remarks: (Explain alternative procedures here or in a separate report.) Normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) \boxtimes Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) ☐ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) \boxtimes Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aguitard (D3) \boxtimes Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes 🛛 No 🗌 Depth (inches): 20 Saturation Present? Depth (inches): 0 (at surface) Yes 🛛 No 🗆 Wetland Hydrology Present? Yes X No \square (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: NRCS slide review shows 9 out of 10 years with wet signatures. Soils saturated at the surface.

ree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
	70 00101		<u>Ottataa</u>	Number of Dominant Species
			-	That are OBL, FACW, or FAC: 0 (A)
·		П		Total Number of Dominant
		П	-	Species Across All Strata: 1 (B)
. <u> </u>		П		Percent of Dominant Species
				That Are OBL, FACW, or FAC: 0 (A/B)
()				Prevalence Index worksheet:
	<u>O</u>	= Total Cove	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)		£1		OBL species x 1 =
· · · · · · · · · · · · · · · · · · ·		П		FACW species x 2 =
				FAC species x 3 =
				FACU species x 4 =
				UPL species x 5 =
	1			Column Totals: (A) (B
		П	_	Prevalence Index = B/A =
k <u></u>				Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	<u>O</u>	= Total Cove	er	Dominance Test is >50%
erb Stratum (Plot size: <u>5' radius</u>)				Prevalence Index is =3.01
. Zea mays (harvested)	<u>50</u>	⋈	NI	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
·				□ Problematic Hydrophytic Vegetation¹ (Explain)
·,		Д.	· — :	¹ Indicators of hydric soil and wetland hydrology must
<u> </u>			_	Be present, unless disturbed or problematic.
			 -	
	_	П		Definitions of Vegetation Strata:
		П	-	Tree – Woody plants 3in. (7.6 cm) or more in diamete
9	_	П		at breast height (DBH), regardless of height
			_	Sapling/shrub – Woody plants less than 3in. DBH
0		. П	2.7	and greater than 3.28 ft (1 m) tall.
1		П		Herb – All herbaceous (non-woody) plants, regardless
2	-		_	of size, and woody plants less than 3.28 ft tall.
	<u>50</u>	= Total Cove	er	Woody vines – All woody vines greater than 3.28 ft in
Voody Vine Stratum (Plot size: 30' radius)				height
·				
·		П		
· <u> </u>	-			Hydrophytic
·				Vegetation Present? Yes □ No ☒
	0	= Total Cove		rm managed plant community area consisting of Zea

Depth	Matri	X			Redox Feat	tures						
inches)	Color (moist)	%	Color ((moist)	%	Type ¹	Loc2		Texture		Remarks	;
11	2.5Y 2.5/1	100	7.5YR 3/4	1	c/p	С	M	Clay los	am			
	-		2.5Y 3/2		c/f	D	М	-				
-13.5	2.5Y 3/1	100	7.5YR 4/6	3	c/p	С	M	Clay				
3.5-22	2.5Y 5/2	100	7.5YR 5/8		m/p	С	M	Clay				
		-						Oldy				
	**			-	_'		-					
	- A				_		1	_	502.0	_		
								-				
			-									-
	- <u> </u>		-	- (2					
								-				
												01
					_						V	
	Concentration, D=E	Depletion, RN	√=Reduced	Matrix,	CS=Covered of	or Coated Sa	nd Grains			PL=Pore Linin		
	oil Indicators: Histosol (A1)				Debarelus Bala	u Curfoss (S	0) // BB B				Hydric Soils ³ :	
	Histic Epipedon (A	2)			Polyvalue Belo MLRA 149		00) (LKK K,		☐ 2 cm Mi☐ Coast P	rairie Redox (R K, L, MLRA A16) (LLR K, I	149B)
	Black Histic (A3)	7.6			Thin Dark Surfa		R R. MLRA	(149B)			eat (S3) (LLR	
	Hydrogen Sulfide (A4)			Loamy Mucky					rface (S7) (LF		,,,
	Stratified Layers (A	0.00			Loamy Gleyed						ace (S8) (LRR	K, L)
	Depleted Below Da		A11)		Depleted Matri						9) (LRR K, L)	
	Thick Dark Surface Sandy Mucky Mine				Redox Dárk Su Depleted Dark						ses (F12) (LRF Soils (F19) (M I	
	Sandy Gleyed Mat				Redox Depress						MLRA 144A, 1	
	Sandy Redox (S5)				rodon Bobios	sierie (i e)						40, 1401
									Red Pa	ent Material (TF2)	
	Stripped Matrix (Se	3)					5			ent Material (allow Dark Su		
	Stripped Matrix (St Dark Surface (S7)	3)	RA 149B)				2 E		☐ Very Sh		ırface (TF12)	
	Dark Surface (S7)	6) (LRR R, ML		rala su com	ouat ha avea	A continue of the			☐ Very Sh	allow Dark Su	ırface (TF12)	
□ ndicators	Dark Surface (S7) of Hydrophytic veg	6) (LRR R, ML etation and		rology n	nust be presen	t, unless dist	urbed or pr	oblematic	☐ Very Sh	allow Dark Su	ırface (TF12)	
□ ndicators estrictiv	Dark Surface (S7) s of Hydrophytic veg re Layer (if observ	6) (LRR R, ML etation and		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
dicators strictive	Dark Surface (S7) s of Hydrophytic veg re Layer (if observer)	6) (LRR R, ML etation and		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh	allow Dark Su xplain in Rem	ırface (TF12)	
dicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observer)	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e		rology n	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e	wetland hydr	74	nust be presen	t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
dicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and e	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg the Layer (if observe): th (inches): Soils regularly plow	(LRR R, ML etation and ed):	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg re Layer (if observe: th (inches):	(LRR R, ML etation and ed):	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg the Layer (if observe): th (inches): Soils regularly plow	(LRR R, ML etation and ed):	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg the Layer (if observe): th (inches): Soils regularly plow	(LRR R, ML etation and ed):	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg the Layer (if observe): th (inches): Soils regularly plow	(LRR R, ML etation and ed):	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg the Layer (if observe): th (inches): Soils regularly plow	(LRR R, ML etation and ed):	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	
ndicators estrictive Type Dept	Dark Surface (S7) s of Hydrophytic veg the Layer (if observe): th (inches): Soils regularly plow	(LRR R, ML etation and ed):	wetland hydr	74		t, unless dist	urbed or pr		☐ Very Sh☐ Other (E	allow Dark Su xplain in Rem	urface (TF12) narks)	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/29/2011 Applicant/Owner: State: WI Sampling Point: 46 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-3% Datum: Soil Map Unit Name: Mundelein silt Ioam (MzfA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology ___ ___ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 No 🗆 Are Vegetation__ _, Soil_ __, or Hydrology ____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area ⊠No Hydrophytic Vegetation Present? **TYes** within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? □Yes **⊠**No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) ☐ Saturation (A3) ☐ Marl Deposits (B15) □ Dry-Season Water Table (C2) ☐ Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) ☐ Crayfish Burrows (C8) ☐ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) ☐ Saturation Visible on Aerial Imagery (C9) □ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ☐ Geomorphic Position (D2) ☐ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🗵 Depth (inches): Water Table Present? Yes No 🖾 Depth (inches): _ Saturation Present? Yes No 🛛 Depth (inches): _ Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

Free Stratum (Plot size: 30' radius)		Absolute	Dominant Species?	Indicator	Dominance Test worksheet:
		% Cover	Species?	Status	ACC 37 V-70-00 C CAMPA TRECORMA CLASSIVICI NO ACCAMPA MARCO CONDICA COMPA
·					Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
		· —			Total Number of Dominant Species Across All Strata: 1 (B)
					Percent of Dominant Species
D			므		That Are OBL, FACW, or FAC: 0 (A/B)
· -			П	, = .	Prevalence Index worksheet:
		0	= Total Cove	er	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 30' radius)				87 <u></u> .	OBL species x 1 =
\$ 					FACW species x 2 =
·					FAC species x 3 =
·				_	FACU species x 4 =
· 		-			UPL species x 5 =
·		_		-	Column Totals: (A) (A) Prevalence Index = B/A =
				7	Hydrophytic Vegetation Indicators:
		<u>o</u>	= Total Cove		Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5' radius)		⊻	- Total Cove	21	☐ Dominance Test is >50% ☐ Prevalence Index is =3.0¹
. Zea mays (harvested)		<u>50</u>		NI	Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
					☐ Problematic Hydrophytic Vegetation¹ (Explain)
		_		_	¹ Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
					Do process, among distance of problematic.
		, <u>-</u>	П	4	Definitions of Vegetation Strata:
	¥1		П		Tree – Woody plants 3in. (7.6 cm) or more in diame
			П		at breast height (DBH), regardless of height
· <u></u>			П	- 7	Sapling/shrub – Woody plants less than 3in. DBH
0			П		and greater than 3.28 ft (1 m) tall.
1		_		200	Harb All background Assessment Assessment
2					Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
		<u>50</u>	= Total Cove	er	**
Voody Vine Stratum (Plot size: 30' radius)					Woody vines – All woody vines greater than 3.28 ft height
					Thought.
•		ş	П		
<u> </u>			П	10.00	Hydrophytic
					Vegetation
		<u>o</u>	= Total Cove	er	Present? Yes ☐ No ☒

		- 133						osence (
Depth	Matri			R	edox Featur							
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc2		Texture		Ren	narks
0-13.5	10YR 2/1	100						Silt loa	m			
13.5-20	10YR 3/1	100						Clay lo	am			
20-26	10YR 4/2	100	7.5YR 4/6	-5/6	c/p	С	М	Clay			9.	
			Deministra	-		- C 1			S	M 1857		
			-									
				-								
	-											
	·				v							
				130-15 14								
		2 22	225 4 65.05						_			
			,									
	*		•									
¹ Type: C=	Concentration, D=I	Depletion, RI	√=Reduced 1	Matrix, CS=	Covered or (Coated Sand	d Grains		² Location: P	=Pore Lin	ing. M=Mat	trix
	il Indicators:							In	dicators for P			
	Histosol (A1)			☐ Poly	value Below	Surface (S8) (LRR R,					LRA 149B)
41200000	Histic Epipedon (A	2)			MLRA 149B						(A16) (LLI	
	Black Histic (A3)				Dark Surfac			149B)				(LLR K, L, R)
	Hydrogen Sulfide (Stratified Layers (A				ny Mucky Mi		RR K, L)				LRR K, L)	(IDDIK I)
	Depleted Below Da		Δ11)		ny Gleyed M eted Matrix (ırface (S8) (S9) (LRR K	
	Thick Dark Surface		711)		ox Dark Surfa							(LRR K, L, R)
	Sandy Mucky Mine				eted Dark Su) (MLRA 149B
	Sandy Gleyed Mat			100	x Depressio	11.535131201 180					THE PERSON NAMED OF THE PERSON NAMED IN COLUMN	4A, 145, 149B
	Sandy Redox (S5)			_		,				nt Materia		
	Stripped Matrix (St								☐ Very Sha	llow Dark S	Surface (TF	12)
	Dark Surface (S7)	(LRR R, ML	RA 149B)						Other (E)	plain in Re	emarks)	
3Indicatore	of Hydrophytic veg	etation and	watland hydr	ology must	he precent	unlace dietu	rhad or are	hlamati				
	e Layer (if observ		vetiand nyun	Jiogy Illust	be present,	uriless dista	rbed or pro	blemau	C,			
Туре	8 31 33	/-						н	ydric Soil Pres	ont?	Yes 🛛	No 🗆
1.5.0	th (inches):							8.0	yanc oon ries	one:	169 🖂	140
Remarks:												
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 11/29/2011 Applicant/Owner: State: WI Sampling Point: 47 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 7, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): slightly concave Slope (%): 1-3% Lat: Long: Datum: Soil Map Unit Name: Kendall silt loam (KIA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks) Are VegetationX, SoilX, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 Are Vegetation_____, Soil_____, or Hydrology _____ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠No □Yes within a Wetland? ☐ Yes ⊠No Hydric Soils Present? Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Normal precipitation for the past 90 days. Disturbed vegetation and soils due to agricultural land management activities. Temperature conditions more mild than usual for this time of year. PRELIMINARY DETERMINATION CONDUCTED OUTSIDE GROWING SEASON. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) ☐ - Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🛛 Depth (inches): Water Table Present? Yes No 🛛 Depth (inches): _ Saturation Present? Yes 🗌 No 🛛 Depth (inches): Wetland Hydrology Present? Yes 🗌 No 🖾 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Sample site slightly depressional. But, no indicators of hydrology observed.

Tree Stratum (Plot size: 30' radius)		Absolute % Cover		Indicator	Dominance Test worksheet:
	2	% Cover	Species?	Status	Number of Dominant Species
	(4				That are OBL, FACW, or FAC: 0 (A)
					Total Number of Dominant
	90.0				Species Across All Strata: 1 (B)
·		3			Percent of Dominant Species
					That Are OBL, FACW, or FAC: 0 (A/B)
				_	Prevalence Index worksheet:
· 		<u>o</u>	= Total Cove		AS A STATE OF THE CHARLES
tanling/Shrub Stratum (Diet also: 201	-U \	_	- Total Cove	lt.	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 30' ra	aius)		П		OBL species x 1 =
		, (2007))	<u> </u>		FACW species x 2 =
					FAC species x 3 =
		-	. <u>-</u>		FACU species x 4 =
					UPL species x 5 =
					Column Totals: (A)
		850-y-0	므	-	Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
			П.		Rapid Test for Hydrophytic Vegetation
		0	= Total Cove	r	☐ Dominance Test is >50%
erb Stratum (Plot size: 5' radius)		50	57	***	☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
Zea mays		50		NI	data in Remarks or on a separate sheet)
_			므		☐ Problematic Hydrophytic Vegetation¹ (Explain)
·))			¹ Indicators of hydric soil and wetland hydrology mus
V <u>=====</u>				_	Be present, unless disturbed or problematic.
·			П		D. C. 10
				-	Definitions of Vegetation Strata:
		3		\sim	Tree – Woody plants 3in. (7.6 cm) or more in diame
		-	. 🗖	_	at breast height (DBH), regardless of height
4 <u></u> -		<u> </u>			Sapling/shrub - Woody plants less than 3in. DBH
D					and greater than 3.28 ft (1 m) tall.
1				_	Herb - All herbaceous (non-woody) plants, regardle
2		-			of size, and woody plants less than 3.28 ft tall.
		<u>50</u>	= Total Cove	r	Woody vines All woody vines greater than 3.29 ft
Voody Vine Stratum (Plot size: 30' radiu	<u>ıs</u>)				Woody vines – All woody vines greater than 3.28 ft height
· <u>· · · · · · · · · · · · · · · · · · </u>					
			П		
					Hydrophytic
		-			Vegetation
		<u>o</u>	= Total Cove	r	Present? Yes ☐ No ☒
demarks: (include photo,number here o	r on a separate shee	et.) Agricultura	l field. Photo 50		

Depth	Matrix	(A.M.C.	Redox Fea	tures		G-E	4/8/11	TO HE SECTION	
(inches)	Color (moist)	%	Color (n		%	Type ¹	Loc ²	_	Texture	R	emarks
12	10YR 3/2	100		, , , , , , , , , , , , , , , , , , ,				Silt loa			
2-19	10YR 3/1	100	10YR 4/2 is	nclene			-	-	lay loam		
		-		ICISTIS.				-			H
9-28	10YR 4/2	100	7.5YR 4/4		c/p		M	Clay lo	oam		
			(s)							-	
-	- XX										
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	9 9				1		E				
	Security and the security and the	VV 11111				Q-90,700 V					
E E				1		-	-				
	30 r =		-						· ·		
ype: C=	Concentration, D=D	epletion, RN	/=Reduced M	latrix, CS	=Covered o	or Coated Sar	d Grains	7	² Location: PL=P	ore Lining, M=N	Matrix
	il Indicators:			The second	-2			lr.	ndicators for Probl		
	Histosol (A1)	ev.		☐ Pol		w Surface (S	B) (LRR R,			A10) (LRR K, L,	
77.00	Histic Epipedon (A2	2)			MLRA 149	(100.05)		44000		Redox (A16) (L	하다면 없는데 이렇게 맛이 없는 사람들이 나니다.
	Black Histic (A3) Hydrogen Sulfide (A	0.41				ace (S9) (LRI Mineral (F1) ((149B)		Peat or Peat (St (S7) (LRR K, L	3) (LLR K, L, R)
	Stratified Layers (A	01/01/50				Matrix (F2)	LIKK K, L)			low Surface (S8	(1)
	Depleted Below Da		A11)		oleted Matri					rface (S9) (LRR	
	Thick Dark Surface				dox Dark Su				☐ Iron-Mangan	ese Masses (F1	2) (LRR K, L, R
	Sandy Mucky Mine			- 100 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1		Surface (F7)					19) (MLRA 149
	Sandy Gleyed Matr	ix (S4)		☐ Red	dox Depres	sions (F8)					144A, 145, 149E
	Sandy Redox (S5) Stripped Matrix (S6	1)								Material (TF2) Dark Surface (TE12)
	Dark Surface (S7)		RA 149B)							in in Remarks)	11-12)
	of Hydrophytic veg		wetland hydro	logy mus	t be presen	nt, unless dist	urbed or pro	oblemat	ic.		
estrictive	e Layer (if observe	- 41.									
		ea):								41,	
Туре	e:	ea):						F	lydric Soil Present	? Yes 🗌	No 🛚
Dept	e: th (inches):	ii	file in at a lea	th - Ad	0 1-21	1.5				? Yes □	No 🗵
Dept	e:	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No 🗵
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No 🛚
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No 🗵
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes 🗌	No 🖂
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s		esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s			? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s		esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator	. Low chrom	a wetland s		esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		a wetland s	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠
Dept	e: th (inches):	ii	ofile just miss	es the A1	2. indicator		5	soils pre	esent.	? Yes □	No ⊠

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region City/County: City and Town of Waukesha, Waukesha County Project/Site: STH 59 West Bypass Sampling Date: 11/08/2011 Applicant/Owner: State: WI Sampling Point: 48 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: SE 1/4 Section 6, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 1-3% Long: Datum: Soil Map Unit Name: Pistakee silt loam (PrA) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are VegetationX, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation____ _ naturally problematic? __, Soil____, or Hydrology ___ (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. Disturbed vegetation due to agricultural land management activities. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) ☐ Saturation (A3) ☐ Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) □ Oxidized Rhizospheres on Living Roots (C3) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) ☐ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) П Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes 🗌 \boxtimes Depth (inches): No Saturation Present? Yes 🗌 No 🏻 Depth (inches): Wetland Hydrology Present? Yes 🗆 No 🖂 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Sample site slightly depressional. But, no hydrology indicators observed.

VEGETATION	- Use scientific name	s of plants.
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Tona Shahara (Blatairea 20) andiana	Absolute		Indicator	Danie - Tarking Line
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1			-	Number of Dominant Species That are OBL, FACW, or FAC: 0 (A)
2			San	20 D 0000 22 D200 2 D
3			\rightarrow	Total Number of Dominant
4			-	Species Across All Strata: 1 (B)
5	_			Percent of Dominant Species
6	-	П	-	That Are OBL, FACW, or FAC: 0 (A/B)
7			_	Prevalence Index worksheet:
	<u>O</u>	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1				FACW species x 2 =
2		П	200	FAC species x 3 =
3			-715	FACU species x 4 =
4			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
5				UPL species x 5 =
6				Column Totals: (A) (B) Prevalence Index = B/A =
			7	Hydrophytic Vegetation Indicators:
7		П		Rapid Test for Hydrophytic Vegetation
	0	= Total Cover		☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)	00		EAGU	☐ Prevalence Index is =3.0¹☐ Morphological Adaptations¹ (Provide supporting
Dactylis glomerata	90	⊠ -	FACU	data in Remarks or on a separate sheet)
2. <u>Taraxacum officinale</u>	20	П	FACU	☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. <u>Trifolium pratense</u>	2		FACU	¹ Indicators of hydric soil and wetland hydrology must
4	_			Be present, unless disturbed or problematic.
5				
6		П	3	Definitions of Vegetation Strata:
7				Tree - Woody plants 2in /7.6 cm) or more in diameter
8		Ξ	7	Tree – Woody plants 3in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
9			Vicesiania	
10				Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11	-			and greater than 5.25 ft (1 m) tall.
12	_		S-1-200	Herb – All herbaceous (non-woody) plants, regardless
12.	440		-	of size, and woody plants less than 3.28 ft tall.
	112	= Total Cover		Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)	170	F		height
1,		- 🗆	-	y 1
2		Д-	-	
3		口		Hydrophytic
4		П		Vegetation
	<u>0</u>	= Total Cover		Present? Yes □ No ☒
Remarks: (include photo number here or on a separate shee	t.) Agricultura			o 51.
The state of the s				654
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(inches) Color (moist) % Color (moist) % Type Loc Texture 0-5 10YR 3/2 100 Silt loam 18-25 10YR 3/3 100 Silt loam 18-25 10YR 3/3 100 Silt loam 18-26 10YR 3/3 100 Silt loam 18-27 10YR 3/3 100 Silt loam 18-28 10YR 3/3 100 Silt loam 18-29 10YR 3/3 100 Silt loam 18-20 10YR 3/3 10 Silt loam 18-20 10YR 3/3 100 Silt loam 18-20 10YR 3/3 10 Silt loam 18-20 10YR 3/3 100 Silt loam 18-20 10YR 3/3 10 Silt loam 18-20 10YR 3				#17 Charles	D. d. F.			Mantalia	PERSONAL PROPERTY.
Caly loam	nazon arrandra		, 2	-		0.1		Matrix	Depth
1978 3/2 100 Silt Ioam	Remarks		Loc	Type) %	Color (moist)			
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: Indicators: Indicators: Indicators for Problemate Law (A10) (LRR K, L) Histic Epipedon (A2)		ıy loam					100	10YR 3/2	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains Hydric Soil Indicators: Indicators for Problematic Hydric Soil Indicators for Problematic Hydric Mark (A10) Coast Prairie Redox (A16 Coast Prairie Redox (A17 Coast Prairie Redox Stratistic Layer (A17 Coast Prairie Redox Stratistic Redox (A17 Coast Prairie Redox (A17		loam					100	10YR 3/2	5-18
Hydric Soil Indicators: Histosol (A1)		loam					100	10YR 3/3	18-25
Hydric Soil Indicators: Histosol (A1)						(-,44,45);	WW 45-1118		
Hydric Soil Indicators: Histosol (A1)									
Hydric Soil Indicators: Histosol (A1)					7				
Hydric Soil Indicators: Histosol (A1)					1100 St 1100 St.			47.0	
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Hydric Soli Indicators: Histosol (A1)						_10		3	
Hydric Soli Indicators: Histosol (A1)									
Hydric Soli Indicators: Histosol (A1)							2. (117)	- 29:	
Hydric Soli Indicators: Histosol (A1)	- 10-27 - 100 AND-17		7	ā 1					
Hydric Soil Indicators: Histosol (A1)							_	- K 	
Hydric Soil Indicators: Histosol (A1)	e Lining M=Matrix	2 ocation: PI =Pore I	d Grains	or Coated Sa	CS=Covered	Reduced Matrix	epletion RM	=Concentration D=De	¹Type: C=
Histosol (A1)			d Ordino	or obdited ob	, 00 0010100	Troduced Middix,	opiotion, run		
Histic Epipedon (A2)			B) (LRR R,	w Surface (S	Polyvalue Beld				and the second s
Hydrogen Sulfide (A4)						_)	Histic Epipedon (A2)	
Stratified Layers (A5)	eat or Peat (S3) (LLR K, L, R)	B) 5 cm Mucky Peat	R, MLRA	ace (S9) (LR	Thin Dark Sur			Black Histic (A3)	
Depleted Below Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses Redox Dark Surface (F6) Iron-Manganese Masses Iron-Manganese Iron-Manganese Masses Iron-Manganese Iron-Mangan			LRR K, L)				S 2 F		
Thick Dark Surface (A12)									
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLR Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remark: Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks: Soils are periodically plowed. Upland soils present.				10 m		573.57 #			
Sandy Gleyed Matrix (S4)									
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Sindicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks: Soils are periodically plowed. Upland soils present. Hydric Soil Present? Yes	이 경영당한 경영화 이번 경영 그림을 하는 경영 등 이번 경영하는 이번 경우에 그림을 모시다고 있다면 없다.			NO. 200.000 St	200 Mg 600	1			
Stripped Matrix (\$6) Dark Surface (\$7) (LRR R, MLRA 149B) Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks: Soils are periodically plowed. Upland soils present. Remarks: Soils are periodically plowed. Upland soils present.				sions (Fo)	Redox Depres		X (04)		
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remark: Indicators of Hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): Remarks: Soils are periodically plowed. Upland soils present. Hydric Soil Present? Yes)		
Restrictive Layer (if observed): Type:	THE STATE OF THE S					A 149B)			
Restrictive Layer (if observed): Type:									20.00
Type:		natic.	irbed or prot	it, unless dis	must be preser	tland hydrology			
Depth (inches):							d):		
Remarks: Soils are periodically plowed. Upland soils present.	Yes ☐ No ☒	Hydric Soil Present?						7 St 100 - 57 St 10 11 10 10	93737
					· · · · · · · · · · · · · · · · · · ·				
						would be the wood and	plowed. Up	: Soils are periodically	Remarks:
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WEILAN	ND DETERMINATION D	ATA FORM – North	central and Northeast	Region
Project/Site: <u>STH 59 West Bypass</u> Applicant/Owner:		inty: City and Town of Wauke		Sampling Date: 08/30/2011 Sampling Point: 49
nvestigator(s): Donald M. Reed, Ph		Section, Township, Rang	ge: NE 1/4 Section 6, T6N, R19	<u>3E</u>
Landform (hillslope, terrace, etc.): Ic		Local relief (concave, con	nvex, none): none	
Slope (%): <u>0-2%</u> Lat Soil Map Unit Name: <u>Pella silt loam</u>			N/M/ old	Datum: assification: E2H
Are climatic/hydrologic conditions on		ar? Yes □ No ☒		ISSIIICALIOII, EZH
Are Vegetation, Soil, or H	lydrology significantly distu	urbed? Are "Normal Circi	umstances" present? Yes ⊠	No □
Are Vegetation, Soil, or H	lydrology naturally problem	natic? (If, needed, expla	in any answers in Remarks.)	
SUMMARY OF FINDINGS -	Attach site map showing	sampling point locat	ions, transects, importa	int features, etc.
And the second s				
Hydrophytic Vegetation Present?	⊠Yes □No	Is the Sampled Are		<u>24_</u> 7636.41
Hydric Soils Present?	⊠Yes □No	within a Wetland?	⊠ Yes	□No
Wetland Hydrology Present?	⊠Yes □No			
Remarks: (Explain alternative proc	cedures here or in a senarate reno	ort) Below pormal precipitation	land Site ID: PCA No. 22	
rismans. (Explain alternative proc	address here of in a separate repo	ort.) below normal precipitation	on for the past 90 days.	
			* D	
		N N		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one	e is required; check all that apply)		☐ Surface So	il Cracks (B6)
☐ Surface Water (A1)		r-Stained Leaves (B9)	☐ Drainage P	atterns (B10)
☐ High Water Table (A2)	☐ Aquat	tic Fauna (B13)		Lines (B16)
Saturation (A3)	The state of the s	Deposits (B15)	— <u>—</u>	n Water Table (C2)
☐ Water marks (B1)		ogen Sulfide Odor (C1)		urrows (C8)
Sediment Deposits (B2)		zed Rhizospheres on Living R		Visible on Aerial Imagery (C9)
Drift Deposits (B3)		ence of Reduced Iron (C4)) (-	
☐ Algal Mat or Crust (B4)	· - <u></u> -	nt Iron Reduction in Tilled Soi	7 N. 197 C. 197	Stressed Plants (D1)
☐ Iron Deposits (B5)		Muck Surface (C7)		c Position (D2)
Inundation Visible on Ae		1 1	Shallow Aq	
		(Explain in Remarks)		raphic Relief (D4)
Sparsely Vegetated Con Field Observations:	icave Surface (B8)			al Test (D5)
Surface Water Present? Yes	□ No ☑ Depth (inches):	7	0.00	
Water Table Present? Yes		Salar		
			TACH THE PROPERTY OF THE PROPE	
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	0 (at surface)	Wetland Hydrology Present	t? Yes⊠ No 🗌
Describe Recorded Data (stream g	sauge monitoring well aerial phot	ns previous inspections) if a	wallable	
	dago, moritoring woll, donar prior	os, previous mapecuons), ir a	valiable.	
Remarks: Soils saturated at the su	ırface.	* 1		
			20	2
Į.				
5			*	
	ě.			

VEGETATION – Use scientific names of plants.			17	Sampling Point: 49
Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Species?	ndicator Status	Dominance Test worksheet:
1	-			Number of Dominant Species
2	_		_	That are OBL, FACW, or FAC: 2 (A)
3	. —	П		Total Number of Dominant
4	-	П		Species Across All Strata: 2 (B)
5			_	Percent of Dominant Species
6		\Box	_	That Are OBL, FACW, or FAC: 100 (A/B)
7		П		Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x1 =
1	S			ANYONG CANADA CA
	-		_	FACW species x 2 =
2		<u></u>		FAC species x 3 =
3		<u>-</u>	-	FACU species x 4 =
4				UPL species x 5 =
5		д 🗀 д		Column Totals: (A) (B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	0	= Total Cover		☐ Rapid Test for Hydrophytic Vegetation ☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.0¹
Phalaris arundinacea	50	\boxtimes	FACW	☐ Morphological Adaptations¹ (Provide supporting
2. Typha angustifolia	33	×	OBL	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Scirpus atrovirens	10		OBL	- Problematic Hydrophytic Vegetation (Explain)
B. We'll be from a control of the co	5		OBL	¹ Indicators of hydric soil and wetland hydrology must
4. Eupatorium maculatum	1700		220000	Be present, unless disturbed or problematic.
5. Aster puniceus	3		OBL	Definitions of Vegetation Strata:
6				Definitions of Vegetation Strata.
7	-	. 😐	(Tree – Woody plants 3in. (7.6 cm) or more in diameter
8		П		at breast height (DBH), regardless of height
9			-	Sapling/shrub - Woody plants less than 3in. DBH
10				and greater than 3.28 ft (1 m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
12	-			of size, and woody plants less than 3.28 ft tall.
	101	= Total Cover		
Woody Vine Stratum (Plot size: 30' radius)				Woody vines – All woody vines greater than 3.28 ft in
		П		height
1			_	
2		=	-	
3		-	_	Hydrophytic
4	-	П		Vegetation Present? Yes ⊠ No □
	0	= Total Cover		
Remarks: (include photo number here or on a separate sheet	t.) Shallow ma	arsh and fresh (w	et) meado	w. Photo 52.
				R S

Depth	Matrix			Redox F		-7					
(inches)	Color (moist)	%	Color (moi	st) %	Type ¹	Loc ²		Texture			Remarks
-11	10YR 2/1	100	1				Muck	77		-011	
1-24	N 1/0	100					Clay	- i			1.2
1									Re	efusal	
										COL III	
										_	
		-		-		-	-				
								7 5			
	1.2					-					
	=Concentration, D=Dep	letion, RM=	Reduced Mat	rix, CS=Covere	d or Coated S	and Grains			PL=Pore		
	oil Indicators: Histosol (A1)		_				In	dicators for			
U 502.000	Histic Epipedon (A2)			MLRA	elow Surface (1498)	S8) (LKK K,					., MLRA 149B) (LLR K, L, R)
	Black Histic (A3)				urface (S9) (L l	RR R, MLRA	149B)				63) (LLR K, L, F
	Hydrogen Sulfide (A4))			ky Mineral (F1				Surface (S7		
alternate .	Stratified Layers (A5)	-	[ed Matrix (F2)						88) (LRR K, L)
	Depleted Below Dark : Thick Dark Surface (A		(1) E	Depleted Ma	atrix (F3) Surface (F6)				ark Surfac		
H	Sandy Mucky Mineral		=		rk Surface (F6)	7)					12) (LRR K, L, F19) (MLRA 14
	Sandy Gleyed Matrix (Ē		essions (F8)	,					144A, 145, 149
	Sandy Redox (S5)								arent Mate	The state of the s	
_								☐ Red P	arent mate	nai (IFZ)	
	Stripped Matrix (S6)							☐ Very S	Shallow Dar	rk Surface	
		RR R, MLRA	A 149B)					☐ Very S		rk Surface	
	Stripped Matrix (S6)			gy must be pres	sent, unless dis	sturbed or pro	oblematic	☐ Very S ☐ Other	Shallow Dar	rk Surface	
ndicators	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed)	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface	
ndicators estrictiv	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
dicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	ent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Dept	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	ent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
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ndicators estrictiv Type Depi	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	ent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv Type Depi	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators estrictiv	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
ndicators testrictiv Type Depi	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
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ndicators estrictiv Type Depi	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis	sturbed or pro	*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	
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ndicators estrictiv Type Depi	Stripped Matrix (S6) Dark Surface (S7) (LR s of Hydrophytic vegeta re Layer (if observed) e: Bedrock? th (inches): 24	tion and we		gy must be pres	sent, unless dis		*************	☐ Very S ☐ Other	Shallow Dar (Explain in	rk Surface Remarks)	

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 08/30/2011 Applicant/Owner: State: WI Sampling Point: 50 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 6, T6N, R19E Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 2-6%, eroded Long: Datum: NWI classification: none Soil Map Unit Name: Hochheim Ioam (HmB2) Wd Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation_ _, Soil____, or Hydrology _ _ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □Yes ⊠No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? ☐Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) □ Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) ☐ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Depth (inches): _ Yes No 🖂 Water Table Present? Yes 🗌 No \boxtimes Depth (inches): Depth (inches): _ Saturation Present? Yes No 🖂 Wetland Hydrology Present? Yes 🗆 No 🖂 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: No hydrology indicators observed.

١	/EGET	ATION	- Use	scientific	names o	of plants.
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% Cover	Species? Status	Dominance Test worksheet:
		Number of Dominant Species
-	<u> </u>	That are OBL, FACW, or FAC: 1 (A)
		204 D. 4529 B. 45297 12 9
	<u>(1-2)</u>	Total Number of Dominant Species Across All Strata: 3 (B)
		1 (20) 20 (20) 8 (20) 0 (4 ft)
		Percent of Dominant Species That Are OBL, FACW, or FAC: 33 (A/B)
	11/2/201	A 100 100 100 100 100 100 100 100 100 10
		Prevalence Index worksheet:
0	= Total Cover	Total % Cover of: Multiply by:
		OBL species x 1 =
10		FACW species x 2 =
		FAC species x 3 =
		FACU species x 4 =
	□	UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
10		Rapid Test for Hydrophytic Vegetation
	- rotal cover	☐ Dominance Test is >50% ☐ Prevalence Index is =3.0¹
80	⊠ FAC	☐ Morphological Adaptations¹ (Provide supporting
		data in Remarks or on a separate sheet)
		☐ Problematic Hydrophytic Vegetation¹ (Explain)
300000		1 Indicators of hydric soil and wetland hydrology must
<u>5</u>	<u> №</u>	Be present, unless disturbed or problematic.
3	☐ FAC	
2	☐ <u>FACU</u>	Definitions of Vegetation Strata:
1	☐ FACU	Tree - Woody plants 3in. (7.6 cm) or more in diameter
	<u> </u>	at breast height (DBH), regardless of height
<u> </u>	П	Sapling/shrub – Woody plants less than 3in. DBH
	П	and greater than 3.28 ft (1 m) tall.
+0	(2000)	POLIC NO COMMUNICATION - NA PROCESSANCE ACCORDENS AND PROCESSANCE ACCO
		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
141		or size, and woody plants less than 3.26 it tall.
10000	- Total Cover	Woody vines - All woody vines greater than 3.28 ft in
		height
	H	
		t :
		Hydrophytic
		Vegetation Present? Yes □ No ⊠
0	= Total Cover ield. Photo 53.	Present: Tes 🗆 No 🖂
	10 80 40 10 5 3 2 1	10

Depth	Matrix			Redox Feat			3				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Texture		Remark	s .
5	10YR 3/1	100					Clay loa	m			
10	10YR 3/2	100	100000000000000000000000000000000000000				Silt loam				
)-18	7.5YR 4/4	100					Silt loam				
3									Re	fusal	
								-		rusar	
										777	
							-				
							-	-			
				_							
11					19-7-12-						
	Concentration, D=Dep	letion, RM=	Reduced Matrix, CS	=Covered o	r Coated Sar	nd Grains	-			ining, M=Matrix	V-1117
	Il Indicators:			and the Date		0) (1 85 5				tic Hydric Soils ³	
	Histosol (A1) Histic Epipedon (A2)		☐ Pol	MLRA 149	w Surface (S	8) (LKK K,		☐ 2 cm M ☐ Coast F	uck (A10)	(LRR K, L, MLRA ox (A16) (LLR K,	(149B)
	Black Histic (A3)		□ Thir		ace (S9) (LRI	RR MIRA				or Peat (S3) (LLF	
	Hydrogen Sulfide (A4))			Mineral (F1) ((LRR K, L)	(K, L, K)
	Stratified Layers (A5)	,			Matrix (F2)					Surface (S8) (LRF	R K. L)
	Depleted Below Dark	Surface (A1		eleted Matrix						(S9) (LRR K, L)	
	Thick Dark Surface (A			lox Dark Su						Masses (F12) (LR	
	Sandy Mucky Mineral				Surface (F7)					ain Soils (F19) (M	
17 (1971)	Sandy Gleyed Matrix	(S4)	☐ Red	lox Depress	sions (F8)				A CONTRACTOR OF THE PARTY OF TH	6) (MLRA 144A,	145, 149B
	Sandy Redox (S5)										
	Stripped Matrix (SG)								rent Mater		
	Stripped Matrix (S6) Dark Surface (S7) (LE	RR MIRA	149R)					☐ Very Sh	allow Dark	k Surface (TF12)	
	Stripped Matrix (S6) Dark Surface (S7) (LF	RR R, MLRA	(149B)					☐ Very Sh		k Surface (TF12)	
				t be presen	t, unless distr	urbed or pro		☐ Very Sh	allow Dark	k Surface (TF12)	i i
ndicators	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed)	ition and we		t be presen	t, unless dist	urbed or pro		☐ Very Sh	allow Dark	k Surface (TF12)	4
ndicators estrictive	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: Dry soils	ition and we		t be presen	t, unless disti	urbed or pro	blematic.	☐ Very Sh	nallow Darl Explain in I	k Surface (TF12) Remarks)	⊠
dicators strictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or pro	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	×
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: Dry soils	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	×
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	⊠
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	⊠
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	×
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Darl Explain in I	k Surface (TF12) Remarks)	
ndicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) b: <u>Dry soils</u> h (inches): <u>18</u>	ition and we	tland hydrology mus		t, unless distr	urbed or prol	blematic.	☐ Very St☐ Other (I	nallow Dark	k Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ition and we	tland hydrology mus				Hy	☐ Very Sh	nallow Darl	x Surface (TF12) Remarks) Yes □ No	
dicators sstrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				blematic. Hyd	☐ Very St☐ Other (I	nallow Darl	x Surface (TF12) Remarks) Yes □ No	
dicators strictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				blematic. Hyd	☐ Very Sh	nallow Darl	x Surface (TF12) Remarks) Yes □ No	
dicators strictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta a Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				blematic. Hyd	☐ Very Sh	nallow Darl	x Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti emarks: F	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				blematic. Hyd	☐ Very Sh	nallow Darl	x Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti emarks: F	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				Hy d	☐ Very Sh	nallow Darl	k Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti emarks: F	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				Hy d	☐ Very Sh	nallow Darl	k Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti emarks: F	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				Hy ₀	☐ Very Sh	nallow Darl	k Surface (TF12) Remarks) Yes □ No	
dicators sstrictive Type Depti	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				Hy ₀	☐ Very Sh	nallow Darl	k Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti emarks: F	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				Hy ₀	☐ Very Sh	nallow Darl	k Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti emarks: F	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: Dry soils h (inches): 18 Refusal at 18" due to d	ation and we	tland hydrology mus				Hy ₀	☐ Very Sh	nallow Darl	k Surface (TF12) Remarks) Yes □ No	
dicators estrictive Type Depti emarks: F	Dark Surface (S7) (LF of Hydrophytic vegeta e Layer (if observed) :: <u>Dry soils</u> h (inches): <u>18</u> Refusal at 18" due to d	ation and we	tland hydrology mus				Hy ₀	☐ Very Sh	nallow Darl	k Surface (TF12) Remarks) Yes □ No	

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 09/06/2011 Applicant/Owner: State: WI Sampling Point: 51 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 6, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 0-3% Long: Datum: Soil Map Unit Name: Wallkill silt loam (Wa) Pd NWI classification: E2H Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☐ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes 🛛 _, Soil____, or Hydrology ____ naturally problematic? Are Vegetation__ (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes No within a Wetland? Yes □ No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 22 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) □ Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \boxtimes Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) \boxtimes FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🗵 Depth (inches): Water Table Present? Yes 🗌 No 🗵 Depth (inches): __ Saturation Present? Yes 🛛 No 🗆 Depth (inches): 20 Wetland Hydrology Present? Yes 🛛 No 🗆 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Seasonal wetland.

ree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Indica Species? Stat	1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6 1 6
	76 Cover	Species? Stat	
<u> </u>	(4)	<u> </u>	Number of Dominant Species That are OBL, FACW, or FAC: 2 (A)
		<u> </u>	Total Number of Dominant
2-	(1.10-1.10-1.10		Species Across All Strata: 2 (B)
_			Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
	<u>o</u>		
	$\underline{\circ}$	= Total Cover	Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 30' radius)			OBL species x 1 =
		<u> </u>	FACW species x 2 =
	-		FAC species x 3 =
<u> </u>		П —	FACU species x 4 =
	-	П	UPL species x 5 =
	-	П	Column Totals: (A) (E
	-	Д	Prevalence Index = B/A =
		П	Hydrophytic Vegetation Indicators:
	<u>0</u>	= Total Cover	 ☐ Rapid Test for Hydrophytic Vegetation ☑ Dominance Test is >50%
erb Stratum (Plot size: 5' radius)			☐ Prevalence Index is =3.0¹
Poa pratensis	<u>75</u>	⊠ FA	
Phalaris arundinacea	<u>50</u>	⊠ FAC	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
Aster lucidulus	10	☐ FAC	CW
Angelica atropurpurea	<u>5</u>	☐ OB	 Indicators of hydric soil and wetland hydrology must Be present, unless disturbed or problematic.
Scirpus atrovirens	5	□ ОВ	
Verbena hastata	5	☐ FAC	Definitions of Vegetation Strata:
Agrostis stolonifera	3	□ FAC	Tree – Woody plants 3in. (7.6 cm) or more in diamet
Solidago gigantea	3	☐ FAC	- 1100 - Woody plants sin. (7.0 din) of more in diameter
Sylvasia significa			
<u> </u>	-		 Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
			and greater triair 3.26 it (1 iii) tail.
	Marin		Herb - All herbaceous (non-woody) plants, regardles
	456		of size, and woody plants less than 3.28 ft tall.
	<u>156</u>	= Total Cover	Woody vines - All woody vines greater than 3.28 ft
oody Vine Stratum (Plot size: 30' radius)			height
	-	Ц - —	
		П	_
<u></u>			- Hydrophytic
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Д	Vegetation
	Q	= Total Cover	Present? Yes ⊠ No □

Deblu	Mat	rix			Redox Fea	tures					
Depth (inches)	Color (moist) %	Color	(moist)	%	Type ¹	Loc2	Te	exture	R	emarks
-11	10YR 3/1	100		(110101)		-		Silty clay lo			omano
1-18	10YR 4/2	100	7.5YR 4/	8	cln	C					71711
1-10	10114/2		N 2.5/0	0	c/p	-	M	Silty clay lo	am		
2.00	N. 4/0	400	N 2.5/0		с/р	D	M				
3-28	N 1/0	100						Muck			
3-30	N 1/0	100						Clay loam			
		<u> </u>				فسيره					
11-11-1-1											
						8					
0			(1999)			100					
			-				-				
- 6)										1711	
	-							-			-
ype: C=	Concentration, D	Depletion, RM	1=Reduced	Matrix, CS	S=Covered	or Coated Sar	nd Grains	2	ocation: PL=Pore	Lining, M=N	latrix
dric So	il Indicators:							Indica	tors for Problem	atic Hydric S	Soils ³ :
	Histosol (A1)			☐ Po		ow Surface (S	8) (LRR R,		2 cm Muck (A10) (LRR K, L,	MLRA 149B)
	Histic Epipedon (A2)			MLRA 14	N. 3. 200		_	Coast Prairie Re		
	Black Histic (A3) Hydrogen Sulfide	(44)				face (S9) (LR) Mineral (F1) (1/27/27/2006 (CE)	5 cm Mucky Pe		
	Stratified Layers			0.000		Matrix (F2)	LKK K, L)		Dark Surface (S Polyvalue Belov		
	Depleted Below I		A11)		pleted Matri			ä	Thin Dark Surfa		
	Thick Dark Surface	2277 77 1122	19		dox Dark Si				Iron-Manganese		
	Sandy Mucky Mir			☐ De	pleted Dark	Surface (F7)			Piedmont Flood	plain Soils (F	19) (MLRA 149
	Sandy Gleyed Ma			☐ Re	dox Depres	sions (F8)			Mesic Spodic (7		144A, 145, 149E
-	Sandy Redox (S5						10		Red Parent Mat	erial (TF2)	
	Stripped Matrix (S										12223757078
			2 A 1 4 0 D \						Very Shallow D	ark Surface (TF12)
	Dark Surface (S7		RA 149B)							ark Surface (TF12)
	Dark Surface (S7) (LRR R, MLF	-110100000001	rology mu:	st be preser	nt, unless dist	urbed or pro		Very Shallow D	ark Surface (ΓF12)
□ ndicators		egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro		Very Shallow D	ark Surface (TF12)
□ ndicators	Dark Surface (S7 of Hydrophytic ve e Layer (if obser	egetation and v	-110100000001	rology mu:	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow D	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser	egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (No □
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless dist	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless distr	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	rology mu	st be preser	nt, unless distr	urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:	egetation and v	-110100000001	Fig. 1			urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF egetation and v ved):	-110100000001	Fig. 1	st be preser		urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF egetation and v ved):	vetland hyd	Fig. 1			urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF egetation and v ved):	vetland hyd	fig.			urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF egetation and v ved):	vetland hyd	fig.			urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF egetation and v ved):	vetland hyd	fig.			urbed or pro	oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF egetation and v ved):	vetland hyd	fig.				oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					oblematic.	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					bblematic. Hydric	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictive Type	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					bblematic. Hydric	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1
ndicators estrictiv Type Dept	Dark Surface (S7 of Hydrophytic ve e Layer (if obser e:) (LRR R, MLF	vetland hyd					bblematic. Hydric	Very Shallow Do Other (Explain i	ark Surface (1 n Remarks)	1

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 09/06/2011 Applicant/Owner: Sampling Point: 52 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 6, T6N, R19E Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): none Slope (%): 0-3% Lat: Long: Datum: Soil Map Unit Name: Wallkill silt loam (Wa) Pd NWI classification: E2H Yes ☐ No ☒ (If no, explain in Remarks) Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Are Vegetation_ (If, needed, explain any answers in Remarks.) _, Soil____, or Hydrology _ naturally problematic? SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? ☐ Yes ⊠No Hydric Soils Present? □Yes ⊠No Wetland Hydrology Present? □Yes ⊠No If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days, HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ☐ Water-Stained Leaves (B9) ☐ Drainage Patterns (B10) ☐ High Water Table (A2) ☐ Aquatic Fauna (B13) ☐ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) ☐ Oxidized Rhizospheres on Living Roots (C3) ☐ Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) \boxtimes Field Observations: Surface Water Present? Yes No 🖾 Depth (inches): Water Table Present? Yes No \boxtimes Depth (inches): Saturation Present? Yes No 🗵 Depth (inches): Wetland Hydrology Present? Yes 🗌 No 🛛 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: Only one secondary indicator of hydrology observed.

١	/EGETA	TION	- Use	scientific	names of	plants.
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Tree Stratum (Plot size: 30' radius)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1	76 COVEL	Species:	Status	Number of Dominant Species
T STATE OF THE PARTY OF THE PAR	, , , , , , , , , , , , , , , , , , ,			That are OBL, FACW, or FAC: 1 (A)
2	-		777	Professional Anna Section Control and Cont
3	**********		-	Total Number of Dominant
4		П	-	Species Across All Strata: 1 (B)
5	——/,	П		Percent of Dominant Species
6		口	_	That Are OBL, FACW, or FAC: 100 (A/B)
7		П	2 2	Prevalence Index worksheet:
	<u>0</u>	= Total Cove	r	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)				OBL species x 1 =
1	22.000	П	200	FACW species x 2 =
			53.5	The state of the s
2		_	***************************************	FAC species x 3 =
3	-		_	FACU species x 4 =
4		브		UPL species x 5 =
5	—	П	_	Column Totals: (A) (B)
6	-	П		Prevalence Index = B/A =
7	: · · · · · · · · · · · · · · · · · · ·		-	Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation
	<u>0</u>	= Total Cove	r	☐ Rapid Test for Hydrophytic Vegetation ☐ Dominance Test is >50%
Herb Stratum (Plot size: 5' radius)				☐ Prevalence Index is =3.01
1. Phalaris arundinacea	100		FACW	☐ Morphological Adaptations¹ (Provide supporting
2. Echinocystis lobata	<u>5</u>		FACW	data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Solanum dulcamara	1	- 🗖	FAC	Froblematic Hydrophlytic Vegetation (Explain)
786		_		1 Indicators of hydric soil and wetland hydrology must
4				Be present, unless disturbed or problematic.
5		П		
6				Definitions of Vegetation Strata:
7		П		Tree – Woody plants 3in. (7.6 cm) or more in diameter
8		П		at breast height (DBH), regardless of height
9		П		Continue to the state of the st
10				Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
11		ä		The state of the s
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-			Herb – All herbaceous (non-woody) plants, regardless
12				of size, and woody plants less than 3.28 ft tall.
	<u>106</u>	= Total Cove	r	Woody vines - All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1				1
2	11	П		
3		口		Hydrophytic
4.				Vegetation
6	. 0	= Total Cove	r	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate				
	ia comendate aprecio decido. V	Marie Paris Salas Assaulte Til		7.
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r Tome De	escription: (Describe		201101010101010101010101010101010101010						11-11-1 (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
Depth	Matrix				Redox Fea			-		
(inches)	Color (moist)		Color (r	noist)	%	Type ¹	Loc²		Texture	Remarks
0-10	10YR 3/2	100						Silt loa	am	2-21020000-112
10-17	7.5YR 3/2	100						Silty c	lay loam	
17-24	10YR 3/2	60						Silty c	lay loam	
	7.5YR 3/2	40	6.45/47/1.75/		W. / W	III Mara Mara				
										1/21/20/20
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	Concentration, D=Depoil Indicators:	netion, Rivi=	-Reduced N	natrix, t	US=Covered	or Coated S	and Grains	I.	² Location: PL=Pore L ndicators for Problemat	
	Histosol (A1)				Polyvalue Bel	ow Surface	(S8) (LRR R,	"		LRR K, L, MLRA 149B)
	Histic Epipedon (A2)				MLRA 14		() (ox (A16) (LLR K, L, R)
	Black Histic (A3)				hin Dark Sur	face (S9) (L	RR R, MLRA	149B)		or Peat (S3) (LLR K, L, R)
	Hydrogen Sulfide (A4) (LRR K, L)		□ Dark Surface (S7)	(LRR K, L)
	Stratified Layers (A5)		4.43		oamy Gleyed					urface (S8) (LRR K, L)
	Depleted Below Dark Thick Dark Surface (A		11)	100000000000000000000000000000000000000	Depleted Matr Redox Dark S	A			☐ Thin Dark Surface	(S9) (LRR K, L) lasses (F12) (LRR K, L, R)
	Sandy Mucky Mineral				Depleted Dark		7)		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in Soils (F19) (MLRA 149 E
	Sandy Gleyed Matrix			1,000	Redox Depres	3.5	• •			6) (MLRA 144A, 145, 149B
	Sandy Redox (S5)	(/							Red Parent Materi	
	Stripped Matrix (S6)								☐ Very Shallow Dark	
	Dark Surface (S7) (LI	RR R, MLR	A 149B)						Other (Explain in F	Remarks)
3Indicators	of Hydrophytic vegeta	ation and we	atland bydro	doay m	uet he prese	nt unlace di	cturbed or pro	hlamat	io	
	e Layer (if observed		dana nyare	nogy II	idst be brese	nt, unless u	sturbed or pro	biemac	10.	
Туре	5 IS IN IN	ř š						1	lydric Soil Present?	Yes □ No ⊠
Dept	th (inches):							5 2	ryano con i resent.	ies 🗆 iie 🖂
Remarks: I	Upland soils.									
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 09/08/2011 Applicant/Owner: State: WI Sampling Point: 53 Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NE 1/4 Section 6, T6N, R19E Landform (hillslope, terrace, etc.): Ephemeral pond Local relief (concave, convex, none): concave Slope (%): 0-2% Lat: Long: Datum: Soil Map Unit Name: Pella silt loam (Ph) Pd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ No 🗆 Are Vegetation__ ___, Soil____, or Hydrology __ ___ naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? ⊠Yes □No within a Wetland? X Yes □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 24 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) ☐ Surface Soil Cracks (B6) Surface Water (A1) Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2) Water marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) \boxtimes Saturation Visible on Aerial Imagery (C9) ☑ Drift Deposits (B3) ☐ Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) ☐ Algal Mat or Crust (B4) ☐ Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) ☐ Thin Muck Surface (C7) Shallow Aguitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes 🗌 No 🖾 Depth (inches): Water Table Present? Yes 🗌 No 🖂 Depth (inches): _ Saturation Present? Yes 🗌 No 🛛 Depth (inches): Wetland Hydrology Present? Yes 🛛 No 🗆 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

VEGETATION	- Use scientific names of plants
VEGETATION	- Use scientific names of plants

T	Absolute	Dominant	Indicator	B
Tree Stratum (Plot size: 30' radius)	% Cover	Species?	Status	Dominance Test worksheet:
1. Ulmus americana	<u>60</u>	×	FACW	Number of Dominant Species That are OBL, FACW, or FAC: 5 (A)
2. Acer negundo	40	⊠	FACW	That are OBL, FACW, or FAC: 5 (A)
3. Populus deltoides	20	П	FAC	Total Number of Dominant
4	-	Д		Species Across All Strata: 6 (B)
5	_	- Д		Percent of Dominant Species
6		. П		That Are OBL, FACW, or FAC: 83 (A/B)
7				Prevalence Index worksheet:
2 2 3 3 W	120	= Total Cov	er	Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 30' radius)	ATTACAS	10101 001		Landard Michigan (Michigan Landard Lan
	<u>5</u>	\boxtimes	FAC	1000 ASS 100 A
1. Rhamnus frangula				FACW species x 2 =
2. Rhamnus cathartica	3		FACU	FAC species x 3 =
3. Ribes americanum	2	П	FACW	FACU species x 4 =
4. Ulmus americana	2	П	FACW	UPL species x 5 =
5				Column Totals: (A) (B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
i	12	= Total Cov	er	Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' radius)	2877	10.000		
Phalaris arundinacea	25		FACW	☐ Morphological Adaptations¹ (Provide supporting
	5		OBL	data in Remarks or on a separate sheet)
2. <u>Carex bebbii</u>		-		☐ Problematic Hydrophytic Vegetation¹ (Explain)
3. Vitis riparia	<u>5</u>		FACW	1 Indicators of hydric soil and wetland hydrology must
4. Aster lateriflorus	2	υП	FACW	Be present, unless disturbed or problematic.
5	_		_	
6				Definitions of Vegetation Strata:
7				Tree Woody plants 3in. (7.6 cm) or more in diameter
8		П		at breast height (DBH), regardless of height
9				
10		_	1	Sapling/shrub – Woody plants less than 3in. DBH and greater than 3.28 ft (1 m) tall.
A ASSOCIATION OF THE PROPERTY	-	Η	_	and grouter than o.20 k (1 m) talk
11	-			Herb - All herbaceous (non-woody) plants, regardless
12				of size, and woody plants less than 3.28 ft tall.
APPER I C 000% 440 Vs FRANC SI IS FASTEV AS INST	<u>37</u>	= Total Cov	er	Woody vines – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 30' radius)				height
1. Vitis riparia	<u>20</u>		FACW	
2	-			
3				Hydrophytic
4				Vegetation
	20	= Total Cov	er	Present? Yes ⊠ No □
Remarks: (include photo number here or on a separate sheet				ds. Photo 56.
A SECURE AT THE SECOND AND THE SECOND ASSESSMENT OF SECOND AND ASSESSMENT OF SECOND ASSESSMEN				
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Depth	Matrix			Redox Fe	atures					
inches)	Color (moist)	%	Color (mo		Type ¹	Loc ²	_	Texture	. p	emarks
9	N 2.5/0	100	7.5YR 4/6	c/p	- - c	PL	Silt loa		176	anaiks
19		-					-			
19	5Y 2.5/1	100	5B 7/1	f/p	_ <u>D</u>	M	Clay lo	am .		
			7.5YR 4/6	c/p	c	M				
9-21	2.5Y 3/1	100	7.5YR 4/6		C	M	Clay			
1-27	2.5Y 4/1	60	7.5YR 5/4 - 5	5/6 m/p	C	M	Silty cl	ay		
	N 3/0	40								
	X.					V				
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		-	//		-		-			
vpe: C=	Concentration, D=Dep	letion, RN	1=Reduced Mar	trix. CS=Covered	or Coated Sa	nd Grains		² Location: PL=Por	e Lining M=M	atriv
	il Indicators:			,	0. 000.00 00.	na oranio	In	dicators for Probler		
	Histosol (A1)			Polyvalue Bel	ow Surface (S	8) (LRR R		2 cm Muck (A1	0) (LRR K, L,	MLRA 149B)
	Histic Epipedon (A2)			MLRA 14	The second secon			☐ Coast Prairie R		
	Black Histic (A3)				rface (S9) (LR) (LLR K, L, R)
	Hydrogen Sulfide (A4) Stratified Layers (A5))				(LRR K, L)		☐ Dark Surface (S		
20 00000 8	Depleted Below Dark	Surface (A11) [☐ Polyvalue Belo☐ Thin Dark Surfa		
	Thick Dark Surface (A		,		9000000 USB					2) (LRR K, L, R)
	Sandy Mucky Mineral		Ì	52 B - 11 W. H. C. F. W. W. W. W. J. H. W. W. W. W.	k Surface (F7)					19) (MLRA 149E
	Sandy Gleyed Matrix ((S4)						☐ Mesic Spodic (TA6) (MLRA 1	44A, 145, 149B
	Sandy Redox (S5)									
	Stripped Matrix (S6)							Red Parent Ma	iterial (TFZ)	
								☐ Very Shallow D	ark Surface (1	F12)
	Dark Surface (S7) (LR	RR R, MLI	RA 149B)						ark Surface (1	F12)
	Dark Surface (S7) (LR			ay must be present	ant unless dist	urbed or pr	oblem ati	☐ Very Shallow D☐ Other (Explain	ark Surface (1	F12)
□ ndicators	Dark Surface (S7) (LR of Hydrophytic vegeta	ition and v		gy must be prese	ent, unless dist	urbed or pr	roblematic	☐ Very Shallow D☐ Other (Explain	ark Surface (1	F12)
□ ndicators	Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed)	ition and v		gy must be prese	ent, unless dist	urbed or pr		☐ Very Shallow D☐ Other (Explain	Park Surface (1 in Remarks)	
ndicators estrictive	Dark Surface (S7) (LR of Hydrophytic vegeta e Layer (if observed)	ition and v		gy must be prese	nt, unless dist	urbed or pr		☐ Very Shallow D☐ Other (Explain	ark Surface (1	No 🗆
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WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region Project/Site: STH 59 West Bypass City/County: City and Town of Waukesha, Waukesha County Sampling Date: 09/08/2011 Applicant/Owner: Sampling Point: 54 State: WI Investigator(s): Donald M. Reed, PhD., SEWRPC Section, Township, Range: NW 1/4 Section 5, T6N, R19E Landform (hillslope, terrace, etc.): low terrace Local relief (concave, convex, none): none Slope (%): 1-4% Long: Datum: Soil Map Unit Name: Lamartine silt loam (LmB) Spd NWI classification: none Are climatic/hydrologic conditions on the site typical for this time of year? Yes ☐ No ☒ (If no, explain in Remarks) Are Vegetation____, Soil____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ⊠ _, Soil____, or Hydrology _ Are Vegetation naturally problematic? (If, needed, explain any answers in Remarks.) SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area Hydrophytic Vegetation Present? □No ⊠Yes within a Wetland? □No Hydric Soils Present? ⊠Yes □No Wetland Hydrology Present? ⊠Yes □No If yes, optional Wetland Site ID: PCA No. 25 Remarks: (Explain alternative procedures here or in a separate report.) Below normal precipitation for the past 90 days. **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) High Water Table (A2) ☐ Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) ☐ Marl Deposits (B15) □ Dry-Season Water Table (C2) Water marks (B1) ☐ Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) ☐ Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) \boxtimes Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes No 🖂 Depth (inches): Water Table Present? Yes 🗌 Depth (inches): No 🖂 Saturation Present? Yes No 🛛 Depth (inches): _ Wetland Hydrology Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks: